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# State of South Carolina Monitoring Strategy for Fiscal Year 1990



**Technical Report No. 001-89** 

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# I. MONITORING STRATEGY - SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

### Purpose of This Strategy

The purpose of this strategy is to establish overall goals and objectives for those key elements of the environmental quality monitoring program which are most needed to achieve the goals of the South Carolina Pollution Control Act (PCA), the Clean Water Act (CWA), implement applicable State and Federal regulations, and implement the EPA Environmental Monitoring Policy. Water quality monitoring provides the data needed to regulate sources of water pollution, assess the quality of the State's waters and evaluate the environmental effectiveness of the South Carolina Department of Health and Environmental Control (SCDHEC) water quality programs.

### Scope of This Strategy

"Environmental quality monitoring" is defined as the set of activities which provides chemical, physical, geological, biological, and other environmental data required by environmental managers. For the purpose of this strategy, water quality monitoring is limited to those activities involved in the State implementation of the Pollution Control and Clean Water Acts in inland/coastal waters. "Regulatory monitoring" is the collection and analysis of ambient data needed for establishing environmental quality-based permit requirements and for assessing and enforcing compliance with permits. Regulatory monitoring also provides data necessary for addressing environmental quality-based assessments of ambient water related to point source and, to a lesser degree, nonpoint source influences. Regulatory monitoring for assessing and enforcing compliance with permits is included in this strategy.

### Statement of Strategy

<u>Major Objectives</u>: This strategy establishes three major objectives for SCDHEC's environmental monitoring program:

### 1. Advance the Regulatory Monitoring Program:

Regulatory monitoring for establishing and enforcing environmental quality-based permit requirements is the highest priority of this strategy. The goal is to provide comprehensive, reliable data to SCDHEC and EPA for environmental quality management, construction grant and permit decisions. Attention should be given to identifying new problems as well as to controlling known problems.

#### Conduct Sound Assessments:

Environmental quality assessments are defined as the analysis of environmental data to determine the quality of the ambient environment. Assessments may use a number of different kinds of data, e.g., concentrations of pollutants in receiving waters, number of reported fish kills, and the amount of impact detected in natural biological communities. Projections of future conditions may also be done using detected ambient trends and data on expected pollution loads.

### 3. Evaluate Control Programs:

SCDHEC will utilize its formal program management and reporting systems for guiding SCDHEC environmental quality monitoring activities and for evaluating SCDHEC program performance.

Program evaluation studies use environmental quality assessments to evaluate the effects of pollution control programs on environmental conditions. Program evaluation studies will be performed as needed to evaluate the environmental results of major SCDHEC programs. To the extent feasible, data will be extracted from on-going SCDHEC regulatory monitoring studies.

Additional goals required for the accomplishment of the objectives outlined above include:

<u>Improving Data Quality</u>: Quality assurance/quality control will continue to be a high priority. The goal is that all data used by SCDHEC for decision making will be of known and sufficient quality for the intended uses.

<u>Data Management</u>: The goal is that data systems will be made more useful so that SCDHEC managers will be able to use ambient data and assessments to determine the environmental impacts of decisions. This will be accomplished by cross-linking existing data systems and developing interactive data retrieval and analysis mechanisms usable by line managers and staff.

### II. OVERVIEW OF THE SOUTH CAROLINA WATER QUALITY MONITORING PROGRAM

Under the Pollution Control and Clean Water Acts, SCDHEC has been delegated certain water quality monitoring duties. These include regulatory monitoring, water quality assessment and program evaluation as needed to fulfill the requirements of the aforementioned Acts. Within this framework specific responsibilities are as follows:

- A. As first priority, the collection and analysis of data as needed to make water quality management decisions:
  - 1. Identification of waters not fully supporting designated uses and priority waterbodies, i.e., those waters most needing water quality-based controls or other actions to protect the designated use, and preliminary determination of the reason(s) for nonsupport when this occurs. Inclusion of this information in the biennial Section 305(b) Report to Congress. Focus is on toxics as well as conventional pollutants. Simple screening techniques may be appropriate for many situations.
  - 2. Development of needed water quality-based controls for both conventional and toxic pollutants. For toxics, use of both the pollutant-specific and the biomonitoring techniques, as appropriate.
  - 3. As needed to supplement State and Regional regulatory monitoring, writing effluent and ambient data collection requirements into permits for identifying waters in need of controls, developing controls, and assessing the effectiveness of these controls to ensure the use is maintained or restored.
- B. Performance of any additional monitoring needed for the Section 305(b) Report to Congress, including monitoring needed to determine the status of waters not meeting designated uses and the preliminary reason(s) for nonattainment.
- C. Ensuring that needed environmental data are provided to EPA, including appropriate assessment data; appropriate screening data; and all regulatory data, including data needed for approvals of water quality standards and wasteload allocations/total maximum daily loads.
- D. Ensuring that appropriate quality assurance/quality control procedures have been followed for all data used in State decision making and for all data reported to EPA, including data reported by dischargers.

To accomplish these responsibilities, several types of monitoring activities are carried out by SCDHEC's Water Quality Monitoring Section, Facilities Compliance Section, and Bureau of District Services personnel. "Monitoring" is a simple term describing a multifaceted area composed of widely diverse activities. While there are different approaches and philosophies of water quality monitoring, it should always be remembered that monitoring is not an end in itself but is only a tool or mechanism to achieve a particular set of goals and objectives.

The primary goal is the attainment and maintenance of fishable/swimmable waters wherever possible as mandated by the Clean Water Act (CWA).

The philosophy of water quality monitoring in South Carolina has been the recognition that monitoring is basically a service activity for the generation of accurate and timely data needed by program and administrative decision areas. Monitoring is a multifaceted discipline that requires a great deal of attention to each of those "facets" in order for the resulting data to be useful. Beyond this, however, is the necessity to use the monitoring area as a vehicle for a cohesive, interrelated approach to water pollution control via the diverse types of data that are a product of the monitoring system. It is through the monitoring program that sample acquisition, data management/reporting, program needs, committed tasks, and other such Departmental functions all meet. Thus, it is at this natural point of confluence that much opportunity is afforded for integration of sometimes apparently non-related tasks or programs into a step-wise, interrelated approach to the protection of water quality in the State.

South Carolina's monitoring activities can be separated into three broad categories based on the types and intended uses of the data collected. In the following sections, each of these categories is defined, including a brief discussion of how the generated data are used.

### 1. Monitoring for Water Quality-Based Controls

The development of discharge controls based on receiving water quality is a very high priority. It involves the collection and analysis of effluent and ambient data to develop water quality-based National Pollutant Discharge Elimination System (NPDES) permit limits. This involves the calculation of Total Maximum Daily Loads (TMDL) for specific waterbodies and Wasteload Allocations (WLA) for point source discharges.

SCDHEC uses trend monitoring data and special study data, especially intensive survey data, in developing WLAs and TMDLs. The kinds of data collected for this type of monitoring may include physical and chemical characterization of effluent and receiving waters, stream hydraulics, macroinvertebrate and fish community assessment of the receiving stream, periphyton/phytoplankton sampling, and static and/or flow-through toxicity bioassays of effluents and receiving waters.

These data are used by the Modelling Section in predictive mathematical models to help determine waste treatment levels needed to maintain instream standards. The modelling results are then passed to engineers in the Domestic Wastewater, and Industrial and Agricultural Wastewater Divisions to be used as the basis for setting final NPDES permit limits.

### 2. Monitoring for NPDES Permit Compliance and Enforcement

The NPDES permit is the principal regulatory tool for controlling the quantity of pollutants discharged to the State's waters and for obtaining data on point-source discharges. Data supplied by the discharger in the form of routine Discharge Monitoring Reports (DMR) and data collected by SCDHEC personnel from Compliance Sampling Inspections (State CSI and Federal 3560), Federal Operation and Maintenance Evaluations (7500), State Operation and Maintenance Inspections (0&M), Performance Audit Inspections (PAI), Technical and/or Diagnostic Evaluations (TE), and Pretreatment Program Audit and Inspections are reviewed by the Facilities Compliance Section to determine the compliance status of a discharger.

In all instances of effluent noncompliance, enforcement actions are supported by all of the above data supplied by the Facilities Compliance Section and all trend monitoring, special studies, and biological monitoring data supplied by the Water Quality Monitoring Section. The majority of the routine inspections and physicochemical trend monitoring activities are conducted by the Bureau of District Services personnel. Data secured and supplied by these monitoring activities are utilized in the majority of SCDHEC's Environmental Quality Control enforcement activities.

### 3. Water Quality Assessment

State administrators need to assess the quality of the aquatic environment so that they can make decisions concerning water program priorities and provide reports to the public on the state of the environment, important trends over time, and accomplishments. They also need to evaluate the effectiveness of control measures. Water quality assessments provide the data base necessary for making these kind of decisions. Water quality assessments can be broken down into two main types; routine long-term trend monitoring and special intensive surveys.

Long-term trend monitoring is accomplished through the Fixed Monitoring Network which consists of Primary Stations, Secondary Stations, Sediment Stations, Basic Water Monitoring Program Stations, and Biological Monitoring Stations. Data collected by this Network are used in the development of designated use classifications and water quality standards, which are in turn used to establish specific waterbody use classifications. Review of these trend data help determine if existing water quality is adequate to protect existing and designated uses and if appropriate standards have been set. Used in such a manner, trend data provide valuable feedback to the NPDES permit writing section as an indication of necessary discharge restrictions.

The data network also forms the basis of the biennial Report to Congress describing the quality of the State of South Carolina waters, as required by Section 305(b) of the Clean Water Act. For this report, trend monitoring data at all primary stations is used to determine the extent to which State waters meet the goals of the CWA and achieve the State designated use classifications and standards. In this manner, priority waterbodies (those not meeting designated use goals) may be identified for special study. Also, those waterbodies with water quality exceeding designated use classifications and standards, may be identified and upgraded to new use classifications.

Special Intensive Surveys are designed to address and answer special concerns. They are used to assess current conditions, substantiate enforcement decisions, follow-up specific actions, respond to complaints or short-term problems, and collect data for use in the

calculation of TMDLs and WLAs. They are often conducted in conjunction with compliance sampling to document ambient conditions and sources of environmental impact. They are often initiated to investigate apparent problems indicated by the trend monitoring data and to determine the causes of nonsupport of designated uses. The data typically collected during such surveys can be physical and chemical water quality parameters, hydraulic stream characteristics, biological sampling, effluent and compliance sampling, and toxicity testing.

Thus, water quality assessment is a broad term describing a great multitude of monitoring and sampling activities. Water quality assessment data can be used to fulfill a variety of goals; assessment of current conditions, assessment of long-term trends, determination of priority waterbodies, determination of designated use attainment/non-usable attainment areas, and identification of continuing or new problem areas.

By integrating all of these monitoring programs it is possible to identify the sources of pollution and the reasons for nonattainment of designated uses, to completely answer specific issues, determine the efficiency of pollutant abatement programs, and allow administrative overview of program effectiveness.

At this point, some discussion and much emphasis must be directed toward the quality assurance/quality control program. As has been stated previously numerous times, by numerous sources, water quality monitoring programs and subsequently-based decisions are only as good as the quality (accurateness, precision) of the crude data. Suffice it to say here, that an active and effective quality assurance/control program is a major cornerstone of this State's monitoring program and is considered a prime contribution to the success of the program.

In designing studies, SCDHEC incorporates as many facets of these monitoring activities as is necessary to allow a whole waterbody approach to managing water quality. This approach is very efficient, realizing a very complete picture of the water quality in a given waterbody with the minimum man-hours and duplication of effort. This is the result primarily of sound assessment design and effective organization and coordination of resources.

The last major consideration that has been given to developing a successful monitoring program by South Carolina is the identification of the users of data or the sources of data requests. In South Carolina, this group is quite diverse ranging from individual citizens to public interest groups to various local/state/federal agencies. Data users are:

- Departmental program areas (e.g., domestic wastewater engineers)
- Water quality trend/ambient condition analysts
- Wasteload allocation analysts
- Public/private environmental groups
- Public at large

- other local/state/federal agencies (regulatory & non-regulatory)
- Departmental administrators via program area outputs

While this large group utilizes the data for different reasons, the Department uses and applies the data to the intermediate objectives and goals as previously discussed. This is done to ascertain whether progress is being made toward successful achievement of these goals and to make correct and appropriate decisions regarding maintenance and enhancement of desirable environmental quality in the State.

Implicit in the identification of users of the data, whether in-Department or out-of-Department, is the capacity to communicate the data to interested parties efficiently and accurately. Technical reports are produced for every special study and copies are available to any interested organization or persons. A list of technical reports is available upon request. Additionally, all trend monitoring and special studies data, with the exception of some biological data, are stored in the EPA STORET computer system, and facility inspection data are stored in the EPA Computerized Permit Compliance System. Summaries of trend monitoring and special studies data are available in several formats through the Water Quality Monitoring Section, including the annual Program Plan and this Monitoring Strategy.

Presently underway is the integration of certain program and service areas within the Department via a computer network such that communication between and among such areas will be greatly expedited and enhanced. Concomitant with this intra-Departmental improvement will be likewise enhancement of communication to interested parties outside the Department. Since the computer network will allow more data to be handled more efficiently at a quicker pace, less time and effort will have to be spent by employees in handling the data and more time and effort will be spent on extracting what the data means and communicating that message to users.

In the following sections, each aspect of the SCDHEC monitoring program is presented in detail. Included are descriptions of station locations, sampling frequency, parameter coverage, and quality assurance quality control procedures.

### III. FIXED MONITORING NETWORK

The purpose of the fixed monitoring network is to provide a system of stations that are sampled in a way that produces well defined data reflecting physical, chemical and biological conditions of the streams and lakes in South Carolina.

All sampling procedures and analyses are performed in accordance with the State Quality Assurance Management Office (SQAMO) and all procedures follow the <u>Standard Operating and Quality Control Procedures for Ambient Water Quality and Wastewater Facility Monitoring</u> (SCDHEC) and <u>Procedures Manual for Stream and Wastewater Facility Flow Measurement</u> (SCDHEC).

### A. Primary Stations

Primary stations are established and sampled in a uniform and logical manner over an extended period of time to provide solid baseline data. By reviewing data and establishing trends in water quality, the primary network aids in identifying stream segments as effluent limited or water quality limited. Intensive water quality surveys, enforcement proceedings or other actions may be based on this trend data. Our present primary network consists of 196 stations sampled once per month, year round.

Stations are grouped according to the regional office responsible for their collection. Stations per region are:

| Aiken      | 34 | Florence   | 31 |
|------------|----|------------|----|
| Charleston | 42 | Greenville | 35 |
| Columbia   | 29 | Lancaster  | 25 |

A statewide map of primary stations appears on the following page.

Primary stations and descriptions are listed by region in Appendix A. Criteria for location and establishment of primary stations are:

- 1. Influent to segment (sub-basin)
- 2. Effluent to segment
- 3. Major streams at state lines
- 4. Confluence of major streams
- 5. Above a major industrial area
- 6. Below a major industrial area
- 7. Water quality limited area
- 8. Major lake
- 9. Above major municipal area
- 10. Below major municipal area
- 11. Mouth of major tributary
- 12. Major water use area
- 13. Above major land use area
- 14. Below major land use area
- 15. Above a water intake
- 16. Sites located in intensive or special water quality surveys
- 17. Other

Appendix A presents the primary stations and the rationale by which they were established. Twenty-six (26) of these primary stream stations have been designated for inclusion in the U.S. EPA National Basic Water Monitoring Program (BWMP).

Parameter coverage and frequency of analysis for the primary stations are as follows. STORET parameter codes are also given:

### Physical Parameters Sampled Monthly

| Flow or Stage Measurement | 00061 or 00065 | Conductivity*,**,***   | 00402   |
|---------------------------|----------------|------------------------|---------|
| Temperature***            | 00010          | Total Suspended Solids | **00530 |
| Turbidity                 | 00076          | Salinity*,***          | 00480   |
| Color*                    | 00080          | Transparency**,*       | 00078   |
|                           |                | Chlorides*             | 00940   |

### Microbiological Parameters Sampled Monthly

| Fecal | Coliform  | 31616 | or | 31615 |
|-------|-----------|-------|----|-------|
| Total | Coliform* | 31506 | or | 31505 |

### Chemical Parameters Sampled Monthly

| Dissolved Oxygen***     | 00300          | Total Phosphorus     | 00665   |
|-------------------------|----------------|----------------------|---------|
| pH                      | 00400          | Alkalinity           | 00410   |
| BOD                     | 00310 or 80082 | Total Organic Carbon | **00680 |
| Ammonia                 | 00610          | <u>-</u>             |         |
| Nitrate-Nitrite         | 00630          |                      |         |
| Total Kjeldahl Nitrogen | 00625          |                      |         |

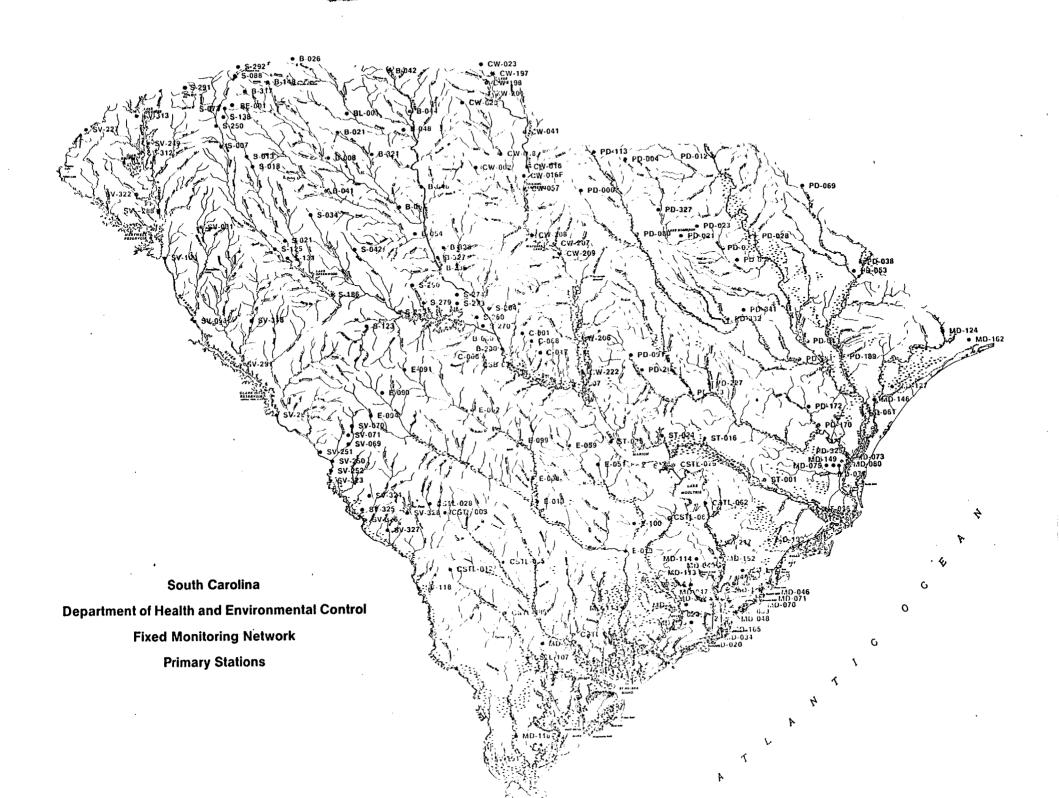
### Chemical Parameters Sampled Quarterly

| Lead     | 01051 | Manganese            | 01055 |
|----------|-------|----------------------|-------|
| Cadmium  | 01027 | Copper               | 01042 |
| Chromium | 01034 | Mercury              | 71900 |
| Zinc     | 01092 | Phenols*             | 32730 |
| Nickel   | 01067 | Total Organic Carbon | 00680 |
| Iron     | 01045 | •                    |       |

### Chemical Parameters Sampled Annually \*,\*\*

### Pesticide Scan including, but not limited to, the following:

| DDT       | 39300, 39 | 305  | Toxaphene  |         | 39400 |
|-----------|-----------|------|------------|---------|-------|
| DDD       | 39310, 39 | 3315 | Lindane    |         | 39782 |
| DDE       | 39320, 39 | 327  | Alpha BHC  |         | 39337 |
| Aldrin    | 39        | 9330 | Beta BHC   |         | 39338 |
| Endrin    | 39        | 9390 | Ethion     |         | 39398 |
| Dieldrin  | 39        | 9380 | Heptachlor |         | 39410 |
| PCB's     | 39        | 9516 | Heptachlor | Epoxide | 39420 |
| Parathion | 39        | 9540 | Malathion  | -       | 39530 |



### Chemical Parameters Sampled Annually (continued)

### Pesticide Scan

| Diazinon                             | 39570 | Guthion  | 39580 |
|--------------------------------------|-------|----------|-------|
| Phosdrin                             | 39610 | Trithion | 39786 |
| Acid Extractable Organics            | 45582 | Hardness | 00900 |
| Base-Neutral Extractable<br>Organics | 45583 |          |       |

Volatile Organics

84085

Appendix B includes the primary stations and individual parameters for each.

### B. <u>Secondary Stations</u>

Our present secondary network consists of 355 strategically located stations. The network is regionally organized with the following assignments:

| Aiken      | 26 | Florence   | 74  |
|------------|----|------------|-----|
| Charleston | 43 | Greenville | 100 |
| Columbia   | 33 | Lancaster  | 79  |

Secondary stations and descriptions are listed by region in Appendix A. A statewide map of secondary stations appears on the following page.

Secondary station locations are based on the following criteria:

- a. Known water quality problem areas; secondary stations act as a check on primary stations where data historically show poor quality. These stations are usually located in relation to smaller discharges throughout the state.
- b. Potential water quality problem areas; stations in these areas are located in high complaint areas, agricultural and domestic non-point source areas, and areas where data have revealed poor conditions.
- c. Areas with the same selection criteria as applied to primary stations. In these cases the same problems or potential for problems exist, but with a lesser degree of importance. These areas still require monitoring, but on a less frequent basis.

<sup>\*</sup>Selected Stations Only.

<sup>\*\*</sup>Basic Water Monitoring Program Stations (transparency only where applicable).

<sup>\*\*\*</sup>Profiled at one (1) meter intervals at lake and estuary stations collected by boat.

Appendix A presents the secondary stations and the rationale by which they were established.

Secondary stations are routinely sampled six (6) times per year, once per month May through October. Secondary station sampling may be suspended during intensive or special stream surveys or due to other higher priority samplings.

Parameter coverage and STORET parameter codes are:

### Physical Parameters Sampled Monthly May-October

| Temperature** | 00010 | Salinity*,**     | 00480 |
|---------------|-------|------------------|-------|
| Turbidity     | 00076 | Conductivity*,** | 00402 |
| Color*        | 00080 | •                |       |

### Chemical Parameters Sampled Monthly May-October

| Dissolved Oxygen** | 00300 | Nitrate-Nitrite  | 00630 |
|--------------------|-------|------------------|-------|
| рH                 | 00400 | Total Phosphorus | 00665 |
| BOD                | 00310 | Phenols*         | 32730 |
| Total Kjeldahl     | 00625 | Ammonia*         | 00610 |
| Nitrogen*          |       |                  |       |

### Microbiological Parameters Sampled Monthly May-October

| Fecal | Coliform | Bacteria  | 31616 | or | 31615 |
|-------|----------|-----------|-------|----|-------|
| Total | Coliform | Bacteria* | 31506 | or | 31505 |

### Chemical Parameters Sampled Annually

| Heavy Metals* |       | Pesticides* |       |
|---------------|-------|-------------|-------|
| Hardness*     | 00900 | Chlorides*  | 00940 |

<sup>\*</sup>Selected stations only.

Appendix B includes the secondary stations and individual parameters for each.

### C. <u>Sediment Stations</u>

There are 191 selected sediment stations within South Carolina. Sediment stations are sampled for analysis once per year. Primary sediment stations are located at the influent or effluent of a subbasin and areas of environmental sinks. Secondary sediment stations selected for analysis are based on district input stemming from their knowledge of local problem areas. Table 1 lists the sediment stations by district.

<sup>\*\*</sup>Profiled at one (1) meter intervals at lake stations collected by boat; profiled at top, mid, and bottom depths at estuary stations collect by boat.



### Sediment Parameters Sampled Annually

| Total Kjeldahl Nitrogen<br>Total Phosphorus<br>Per Cent Volatile Solids<br>Oil and Grease<br>Lead | 00627<br>00668<br>70322<br>00557<br>01052 | Chromium Mercury Cadmium Nickel Pesticide Scan |        | 01029<br>71921<br>01028<br>01068<br>ing, |
|---|---|--|--------|--|
|   |   | but not limite                                 | a to:  |  |
| Zinc  | 01093                                     |  |        |  |
| Copper  | 01043                                     | DDT  | 39301, | 39306                                    |
| PCB's   | 39519                                     | DDD  | 39311, | 39316                                    |
| Acid Extractable  | 45582                                     | DDE  | 39321, | 39328                                    |
| Organics*   |   | Aldrin   | •      | 39333                                    |
| Base-Neutral Extractable  | 45583                                     | Endrin   |        | 39393                                    |
| Organics*   |   | Dieldrin                                       |        | 39383                                    |
| Volatile Organics*  | 84085                                     | Methoxychlor                                   |        | 39481                                    |
| · · · · · · · · · · · · · · · · · · ·   |   | Lindane  | ,      | 39783                                    |
|   |   | Toxaphene                                      |        | 39403                                    |

<sup>\*</sup>Selected stations only, see Table 1 below.

Table 1

|                 |                         | <u>Se</u>  | diment Stat   | <u>ions</u>                                      |                      |        |
|-----------------|-------------------------|--|---|--|----------------------|--------|
| <u>Columbia</u> |                         |  |   |  |                      |        |
| (a)             | Primary:<br>November    | S-204<br>S-223<br>S-260<br>S-273<br>S-274<br>S-279           | *B-054<br>*B-236<br>*C-007<br>*CSB-001L                     | *CW-206<br>CW-207<br>CW-208<br>CW-209<br>*CW-222 |                      |        |
|                 |                         | S-280<br>S-290   | *CSB-001R   | ÷  |                      |        |
| (b)             | Secondary:<br>September |  | B-077<br>B-316  | E-035<br>E-101                                   |                      |        |
| <u>Aiken</u>    |                         |  |   |  |                      |        |
| (a)             | Primary:<br>December    | *E-008<br>E-013<br>E-059<br>E-090<br>E-091<br>E-092<br>E-094 | *SV-118<br>SV-250<br>*SV-291<br>SV-294<br>SV-318<br>*SV-323 | S-123<br>S-131                                   | CSTL-012<br>CSTL-028 | ST-025 |
| - (b)           | Secondary:<br>September | E-007A<br>E-076  | SV-072<br>SV-073<br>SV-096                                  | S-050<br>S-093<br>S-233                          |                      |        |

## <u>Greenville</u>

| (a)       | Primary:<br>October     | SV-098<br>*SV-121  | S-007  | B-008  | BE-001  |  |
|-----------|-------------------------|--|--|--|---|--|
|           |                         | *SV-122<br>SV-227<br>SV-288  | *S-018<br>S-021<br>S-073<br>S-088<br>*S-125<br>S-250<br>S-296  | B-026<br>B-041<br>B-148<br>B-317                 | *BL-001   |  |
| (b)       | Secondary:<br>September | SV-015<br>*SV-037<br>SV-107<br>SV-137<br>SV-282                                    | B-192<br>B-302   |  |   |  |
| Lancaster |                         |  |  |  |   |  |
| (a)       | Primary:<br>October     | B-042<br>B-044<br>*B-046<br>B-048<br>B-051   | PD-004<br>PD-006<br>PD-080<br>PD-113<br>PD-327                 | CW-013<br>*CW-016<br>CW-016F<br>CW-041<br>CW-057 | CW-152<br>CW-197<br>CW-198<br>CW-201<br>CW-226                                |  |
| (b)       | Secondary:<br>September | *B-057<br>B-086<br>B-100<br>*B-119<br>*B-330                                       | PD-066<br>PD-152   | CW-018<br>*CW-023<br>CW-027<br>CW-155<br>*CW-224 | *CW-225   |  |
| Charlesto | <u>n</u>                |  |  | ·  |   |  |
| (a)       | Primary:<br>December    | CSTL-006<br>CSTL-062<br>CSTL-063<br>CSTL-079<br>*CSTL-098<br>CSTL-107<br>*CSTL-109 |  | *ST-001<br>ST-006<br>ST-016                      | MD-007<br>MD-026<br>MD-043<br>MD-045<br>*MD-048<br>MD-052<br>MD-115<br>MD-118 | MD-119<br>MD-120<br>MD-152<br>MD-195<br>MD-202<br>MD-241 |
| (b)       | Secondary:<br>September | CSTL-010<br>CSTL-013<br>CSTL-085   | ST-007   | MD-004<br>MD-006<br>MD-010<br>MD-206             | MD-209<br>MD-210<br>MD-116  |  |
| (c)       | Biological:<br>March    | *MD-214<br>*MD-215<br>*MD-216<br>*MD-538<br>*MD-632<br>*MD-633                     | *MD-634<br>*MD-635<br>*MD-636<br>*MD-639<br>*MD-640<br>*MD-655 |  |   |  |

### <u>Florence</u>

| (a) | Primary:<br>November    | *MD-080<br>MD-124<br>MD-127<br>MD-146<br>MD-162 | PD-012<br>*PD-027<br>*PD-028<br>*PD-038<br>PD-041 | PD-043<br>PD-052<br>*PD-061<br>PD-069<br>PD-091 | PD-170<br>PD-189<br>*PD-202<br>PD-227<br>PD-281 | PD-325<br>PD-332 |
|-----|-------------------------|---|---|---|---|------------------|
| (b) | Secondary:<br>September | MD-158  | PD-030A<br>PD-081<br>PD-097<br>PD-159             | PD-256<br>PD-321                                |   |                  |
| (c) | Biological:<br>March    | *MD-212<br>*MD-213                              | *MD-637<br>*MD-638                                |   | -   |                  |

<sup>\*</sup>Stations sampled for sediment organics (see above).

# D. <u>Schedule for the Ambient Monitoring Program for FY'88 by Laboratory District</u>

The following is the schedule for collection of samples for primary water stations, primary sediment stations, secondary water stations, and secondary sediment stations for each District Laboratory. The schedule includes the number of each type of sample to be collected, and it also includes the month(s) for collection. Please refer to Section A, B, and C and Appendix C for details relevant to specific parameters for each station.

### Lab: Aiken

### Primary Surface Stations -- 34

- -Quarterly for metals, TOC, and phenols\* -- March, June, September and December
- -Annually for Pesticide PCB's and other organics (selected stations) -- April
- -Annually for hardness (selected stations) -- to coincide with one of the metals samples

### <u>Primary Sediment Stations -- 18</u> -Collected in December

dorrected in becember

### <u>Secondary Sediment Stations -- 8</u> -Collected in September

<u>Secondary Surface Stations -- 30</u> -Collected from May through October

### Lab: Columbia

Primary Surface Stations -- 29
-Quarterly for metals, TOC, and phenols\* -- February, May, August, and November

<sup>\*</sup>Selected Stations

- -Annually for Pesticides PCB's and other organics (selected stations) -- March
- -Annually for hardness (selected stations) -- to coincide with one of the metals samples

### <u>Primary Sediment Stations -- 18</u> -Collected in November

### <u>Secondary Sediment Stations -- 4</u> -Collected in September

### <u>Secondary Surface Stations -- 33</u> -Collected from May through October

### Lab: Florence

### Primary Surface Stations -- 32

- -Quarterly for metals, TOC, and phenols\* -- February, May, August, and November
- -Annually for Pesticides PCB's and other organics (selected stations) -- April
- -Annually for hardness (selected stations) -- to coincide with one of the metals samples

### Primary Sediment Stations -- 22

-Collected in November

### <u>Secondary Sediment Stations -- 7</u> -Collected in September

### <u>Secondary Surface Stations -- 74</u> -Collected from May through October

#### Lab: Greenville

### Primary Surface Stations -- 31

- -Quarterly for metals, TOC, and phenols\* -- January, April, July, and October
- -Annually for Pesticide PCB's and other organics (selected stations -- May
- -Annually for hardness (selected stations) -- to coincide with one of the metals samples

### Primary Sediment Stations -- 20

-Collected in October

### Secondary Sediment Stations -- 7

-Collected in September

### Secondary Surface Stations -- 100

-Collected from May through October

<sup>\*</sup>Selected Stations

### Lab: <u>Lancaster</u>

### Primary Surface Stations -- 21

- Quarterly for metals, TOC, and phenols\* -- March, June, September, and December
- Annually for Pesticide PCB's and other organics (selected stations) -- March
- Annually for hardness (selected stations) -- to coincide with one of the metals samples

### Primary Sediment Stations -- 20

- Collected in October

### Secondary Sediment Stations -- 13

- Collected in September

### Secondary Surface Stations -- 77

- Collected from May through October

### Lab: Charleston

### Primary Surface Stations -- 42

- Quarterly for metals, TOC, and phenols\* -- January, April, July, and October
- Annually for Pesticide PCB's and other organics (selected stations) -- May
- Annually for hardness (selected stations) -- to coincide with
   one of the metals samples

### Primary Sediment Stations -- 27

- Collected in December

### Secondary Sediment Stations -- 11

- Collected in September

### Secondary Surface Stations -- 42

Collected from May through October

### Lab: Biological Services

### Primary Sediment Stations -- 16

- Collected in March

<sup>\*</sup> Selected stations

### E. Basic Water Monitoring Program (BWMP)

Twenty-six of the S.C. Department of Health and Environmental Control primary trend monitoring stations have been designated as U.S. EPA National Basic Water Monitoring Program stations. These stations are listed below:

| STATION NO.   | <u>COUNTY</u>  | DISTRICT   |
|---|--|--|
| B-046<br>B-054<br>B-236<br>BL-001<br>C-007<br>CSB-001 L&R<br>CSTL-109<br>CSTL-098<br>CW-016<br>CW-206 | Union Newberry Fairfield Spartanburg Richland Richland Hampton Beaufort Lancaster Richland | Catawba Central Midlands Central Midlands Appalachia II Central Midlands Central Midlands Trident Trident Catawba Central Midlands |
| E-008<br>E-015<br>E-100<br>MD-048 *(MD-214)<br>MD-080 *(MD-213)<br>PD-027<br>PD-028<br>PD-038         | Orangeburg Dorchester Dorchester Charleston Georgetown Darlington Darlington Marion        | Lower Savannah<br>Trident<br>Trident<br>Trident<br>Pee Dee<br>Pee Dee<br>Pee Dee<br>Pee Dee  |
| PD-061<br>PD-202<br>S-125<br>S-018<br>ST-001<br>SV-118<br>SV-323<br>SV-291                            | Horry Sumter Laurens Greenville Berkeley Allendale Aiken McCormick                         | Pee Dee<br>Pee Dee<br>Appalachia II<br>Appalachia II<br>Trident<br>Lower Savannah<br>Lower Savannah                                |

\*Biological Sampling cannot be conducted at these stations. In parentheses are the Trend Biological Monitoring stations where accompanying biological data are gathered (see Appendix C).

Appendix A presents station descriptions.

### Parameter coverage and STORET parameter codes are:

### Parameters Sampled Monthly

| Temperature      | 00010          | Total phosphorus                                     | 00665 |
|------------------|----------------|--|-------|
| Turbidity        | 00076          | Ammonia  | 00610 |
| Alkalinity       | 00410          | Biological oxygen demand                             | 00310 |
| Dissolved oxygen | 00300          | Total suspended solids                               | 00530 |
| Hq               | 00400          | Total organic carbon                                 | 00680 |
| Conductivity     | 00402          | El ou <sup>r</sup>                                   | 00061 |
| Fecal coliform   | 31616 or 31615 | Salinity <sup>C</sup><br>Transparency <sup>B,C</sup> | 00480 |
| Total Kjeldahl   | 00625          | Transparency <sup>D,C</sup>                          | 00078 |
| nitrogen         | -              | Nitrate-Nitrite                                      | 00630 |

A = Streams only

B = Lakes and Impoundments only

C = Estuaries only

### Parameters Sampled Quarterly

### Heavy Metals

### Parameters Sampled Annually

Pesticides/PCB's
Volatile Organics 84085
Base-Neutral Extractable Organics 45583
Acid Extractable Organics 45582
Trace organics and metals in sediment

(See Section C, includes all Sediment Parameters Sampled Annually)

### Parameters Sampled Annually

Representative fish/shellfish tissue analysis (see following Section and Appendix C)

Parameter coverage at each station appears in Appendix B.

### F. <u>Biological Monitoring</u>

The biological monitoring network provides information which will allow for the detection and evaluation of changes in the biological stability of aquatic communities. Data collected through this program are also used to detect the presence and/or build-up of potentially hazardous substances in aquatic organisms. The various activities falling under the biological monitoring program are detailed below.

- 1. <u>Fixed-Station Monitoring</u> A program of long-term monitoring utilizing 51 fixed biological monitoring stations distributed as follows:
  - 26 EPA Basic Water Monitoring Program (BWMP) Stations
  - 9 Special Status Stations
  - 16 Estuarine Stations

These stations are sampled at least annually for a variety of parameters (Table 2) to the extent that laboratory and manpower resources permit. Station location descriptions are presented in Appendix C while specific parameter coverage and sampling frequency information is listed in the appropriate following subsections. Stations are selected according to the same criteria presented for the BWMP stations in Appendix A as well as according to these additional criteria:

- a. At locations in selected major water bodies potentially subject to inputs of contaminants from areas of concentrated urban, industrial, and/or agricultural use.
- b. At locations in selected water bodies which are of critical value for sensitive uses such as domestic water supply, recreation, propagation and maintenance of fish and wildlife.
- c. At locations in selected areas suited to deliver natural, background water quality characteristics on a long-term basis.
- d. At locations in selected areas where specific water quality impairment has been documented with ameliorative procedures in place to follow the response of the water system to those procedures.
- 2. <u>Toxic Materials Monitoring</u> Uptake and concentration by aquatic organisms of toxic and potentially hazardous substances will be studied at trend biological monitoring stations. This program will also be extended to areas of intensive surveys and/or special studies as dictated by the intent of the investigation.
- 3. Parameters and Sampling Frequency Parameters sampled during trend monitoring and intensive surveys are determined by the characteristics of the site being sampled or intent of the sampling activity. The parameters collected and the intended sampling frequency for each type of fixed-station biological monitoring activity is outlined below. Because of constraints on laboratory resources, prioritization of samples may preclude tissue analyses from some of the annual trend network collections. The 51 stations described in Appendix C are sampled yearly. Parameters available for inclusion as well as frequency used in fixed-station biological monitoring are described in Table 2.

Table 2

Fixed-Station Biological Monitoring Program
Biological Community Coverage and Sampling Frequency

| Parameters            | Station<br>Status            | Macro-<br>invertebrate | Finfish     | Crustacean | Shellfish |
|-----------------------|------------------------------|------------------------|-------------|------------|-----------|
| Counts                | BWMP<br>Special<br>Estuarine | 1<br>1<br>3            | 2<br>2<br>2 |            | 3         |
| Species<br>Ident.     | BWMP<br>Special<br>Estuarine | 1<br>1<br>3            | 2<br>2<br>2 |            | 3         |
| Toxic Sub-<br>stances | BWMP<br>Special<br>Estuarine |                        | 2<br>2<br>2 | 1          | 3         |

- 1. Each Station sampled once annually between June and August
- 2. Each station sampled once annually between September and October
- 3. Each station sampled once annually in March
  - a. Macroinvertebrates Quantitative collections will be made at all riverine and estuarine stations (Table 2). Four Hester-Dendy samplers will be exposed for four weeks at all riverine stations; three 0.01 m<sup>2</sup> quadrats will be collected at all estuarine stations. Analyses to be conducted are:
    - (i) Identification to family, genus and/or species
    - (ii) Counts
    - (iii) Size distributions of oysters at estuarine stations
    - (iv) Community structure at estuarine stations
  - b. Toxic Materials Monitoring Program The species and size requirements of individuals used in tissue analyses along with the proposed number of tissue analyses to be conducted are summarized in Tables 3 and 4. A list of organic toxicants and inorganic toxicants tested for in each type of animal, and the sampling frequency are presented in Tables 5 and 6, respectively. The sampling program for each type of animal tissue is detailed in the following subsections.
    - (i) Finfish
    - A. One composite of five whole fish of the same species within a selected weight

class will be collected from each major trophic level (omnivores, piscivores, insectivores) at each trend station (24 BWMP stations and special status stations).

Table 3

Fixed-Station Biological Monitoring Program Species
Requirements and Sample Size Restrictions
for Tissue Analyses

| Tissu<br>Group              |  | Sample Type                                      | No. Individ.<br>in Sample | Size/Weight<br>Restrictions | Preparation  |
|-----------------------------|--|--|---------------------------|-----------------------------|--|
| Finfish:                    | omnivores<br>piscivores<br>insectivores<br>estuarine | Composite<br>Composite<br>Composite<br>Composite | 5<br>5<br>5<br>5          | TBD* TBD TBD TBD            | Whole fish<br>Whole fish<br>Whole fish<br>Whole fish |
| Crustace<br>( <u>C. sap</u> |  | Composite  | 30                        | ≥12.7 cm<br>in width        | Somatic<br>muscle                                    |
| Shellfis                    | sh<br><u>rqinica</u> )                               | Composite  | 30                        | >7.5 cm<br>in height        | Whole<br>Shucked                                     |

<sup>\*</sup> to be determined

Table 4

Fixed-Station Biological Monitoring Program
Proposed Number of Tissue Analyses by Station Type

| Tissue      | Number of Samples by Station Type |              |           |           | TOTAL |
|-------------|-----------------------------------|--------------|-----------|-----------|-------|
| Group       | Riverine                          | Lacustrine   | Estuarine | Off-Shore |       |
| Finfish     | 75                                | 21           | 4         | 1.        | 101   |
| Crustaceans |                                   |              | 16        |           | 16    |
| Shellfish   |                                   | <b>33 69</b> | 16        |           | 16    |
| TOTAL       | 75                                | 21           | 36        | 1         | 133   |

Table 5 Fixed-Station Biological Monitoring Program Organic Chemical Parameter Coverage and Proposed Sampling Frequency for Tissue Analysis

|                 |                         | Tissue Type |             |           |
|-----------------|-------------------------|-------------|-------------|-----------|
| Chemical Group  | Parameter               | Finfish     | Crustaceans | Shellfish |
| Pesticides/PCBs | Aldrin (ug/kg)*         | 1           | 1           | 1         |
| ,               | B-BHC (ùg/kg)           | 1           | 1           | 1         |
|                 | Chlordane (ug/kg)       | 1           | 1           | 1         |
|                 | DDD (ug/kg)             | 1           | 1           | 1         |
|                 | DDE (ug/kg)             | 1 .         | $\bar{1}$   | ĩ         |
|                 | DDT (ug/kg)             | 1           | · 1         | ĩ         |
|                 | Dieldrin (ug/kg)        | ī           | ī           | · ī       |
|                 | Endrin (ug/kg)          | ī           | ī           | ī         |
|                 | Heptachlor (ug/kg)      | ī           | ī           | ĩ         |
|                 | Heptachlor epoxide (ug/ | 'ka) Ī      | ī           | ī         |
|                 | Hexachlorobenzene (ug/k | (a) 1       | ī           | î .       |
|                 | Lindane (ug/kg)         | 1           | ī           | i         |
|                 | Methyoxychlor (ug/kg)   | î           | i           | î         |
|                 | Toxaphene (ug/kg)       | i           | i           | 1         |
| • ,             | Diazinon (mg/kg)        | î           | i           | i         |
|                 | Ethion (mg/kg)          | · i         | 1           | 1         |
|                 | Guthion (mg/kg)         |             | 1           | 1         |
|                 | Malathion (mg/kg)       | 1           | 1           | 1         |
|                 | Methyl parathion (mg/kg | .\ 1        | 1           | 1         |
|                 |                         | 1) 1        | 1           | 1         |
|                 | Parathion (mg/kg)       | 1           | 1           | 1         |
|                 | Ronnel (mg/kg)          | 1           | 1           | i         |
|                 | a-BHC (mg/kg)           | 1           | l<br>1      | 1         |
|                 | Mirex (mg/kg)           | 1           | <u>l</u>    | 1         |
|                 | PCBs (mg/kg)            | I           | l           | 1         |
| Organic         | Pesticides/PCBs         | 1           | 1           | 1         |
| Priority        | Acid extractables       | 2           | 1           | 1         |
| Pollutants      | Base-neutral extract-   |             |             |           |
|                 | ables                   | 2           | 1           | 1         |
|                 | Polynuclear aromatic    | _           | _           | -         |
|                 | hydrocarbons            | 2           | 1 .         | 1         |

analyses conducted annually
 analyses conducted biannually
 ug/kg = parts per billion; mg/kg = parts per million, wet weight

Table 6

Fixed-Station Biological Monitoring Program
Inorganic Chemical Parameter Coverage and
Proposed Sampling Frequency for Tissue Analysis

|                                     |   | Tissue Type                     |                            |                            |  |
|-------------------------------------|---|---------------------------------|----------------------------|----------------------------|--|
| Chemical Group                      | Parameter   | Finfish                         | Crustaceans                | Shellfish                  |  |
| Heavy Metals                        | Cadmium (mg/kg)* Chromium (mg/kg) Copper (mg/kg) Lead (mg/kg) Mercury (mg/kg) Nickel (mg/kg) Zinc (mg/kg) | 1<br>1<br>1<br>1<br>1<br>1<br>1 | 1<br>1<br>1<br>1<br>1<br>1 | 1<br>1<br>1<br>1<br>1<br>1 |  |
| Inorganic<br>Priority<br>Pollutants | Routine metals<br>Beryllium (mg/kg)<br>Silver (mg/kg)<br>Thallium (mg/kg)                                 | 1<br>2<br>2<br>2                | 1<br>1<br>1<br>1           | 1<br>1<br>1<br>1           |  |

<sup>1.</sup> analyses conducted annually

Analyses will be conducted annually for heavy metals and pesticides/PCBs at all stations and biannually for priority pollutants. Such samples from Lake Marion (3 of the 9 special status stations) will be analyzed annually for all parameters.

- B. One composite of five whole flounder within a selected weight class will be collected from Charleston Harbor, Winyah Bay, Port Royal Sound, and St. Helena Sound. Analyses will be conducted annually for heavy metals and pesticides/PCBs and biannually for priority pollutants.
- C. One composite of five whole pelagic fish of the same species within a selected weight class will be collected from off-shore. Analyses will be conducted annually for heavy metals and pesticides/ PCBs and biannually for priority pollutants.

<sup>2.</sup> analyses conducted biannually

<sup>\*</sup> mg/kg = parts per million, wet weight

As appropriate, single or composite fillets of large gamefish may be prepared for analyses from any of these areas in addition to the whole fish samples.

### (ii) Shellfish

A. One composite of thirty adult (≥7.5 cm in height) oysters (<u>Crassostrea virginica</u>) will be collected from the mid-intertidal zone at 16 estuarine stations. Analyses will be conducted annually for organic and inorganic priority pollutants.

### (iii) Crustaceans

A. One composite of somatic muscle tissue from thirty legally-harvestable (≥12.7 cm in width) blue crabs (Callinectes sapidus) will be collected at 16 estuarine stations. Analyses will be conducted annually for organic and inorganic priority pollutants.

### (iv) Sediment

A. One sample will be collected from the approximate top 3 cm of sediment in the mid-intertidal zone at 16 estuarine stations where shellfish are collected. Analyses will be conducted annually for organic and inorganic priority pollutants.

### 5. Acute and Chronic Toxicity Assessment Program

The Toxicity Assessment Program predicts the effects of wastewater discharges on aquatic life. Data collected through this program are also used to provide legally defensible data on damage in situations where compliance monitoring indicates violation of permits and/or water quality standards, and to provide information suitable for inclusion in the evaluation of permits issued under the NPDES discharge permit system. To accomplish these objectives the following test procedures may be utilized:

- (a) Laboratory Bioassay A static bioassay program which can be utilized for both screening and definitive acute and chronic toxicity testing.
- (b) Mobile Bioassay A mobile unit capable for use in both dynamic and static bioassays. The major emphasis of the unit will be on acute toxicity.
- (c) Instream macroinvertebrate assessments.

### Parameters and Sampling Frequency

Selection of wastes and dischargers utilized for toxicity testing will be closely coordinated with NPDES permitting program areas, compliance monitoring personnel, enforcement personnel and district/laboratory personnel. Ten static chronic toxicity tests and 48 static acute toxicity tests will be conducted this year.

### G. Shellfish Monitoring

### Fixed-Monitoring Network

The state's coastal area is divided into 23 shellfish management areas with a total of 361 monitoring stations. The purpose of this monitoring network is to provide data which accurately reflects the sanitary conditions of coastal shellfish and shellfish growing waters in South Carolina to insure that the health of shellfish consumers is protected.

The shellfish monitoring program provides the data base which is used in conducting a comprehensive evaluation of each shellfish These evaluations, or sanitary surveys, are conducted every three years with annual updates. The data are collected at strategically located sites and used to classify shellfish waters as to harvesting suitability. The monitoring network also serves to provide sanitary-related data from each shellfish area during the harvesting season to ensure that conditions which existed during the comprehensive evaluation still prevail; that the harvest classification is correct; and, ultimately that shellfish are safe to be consumed by the public All shellfish waters receive one of the following once harvested. harvest classifications:

Approved:

Areas where a sanitary survey indicates that the water is not contaminated with fecal material, pathogenic microorganisms, or poisonous and deleterious substances in concentrations dangerous to human health. The fecal coliform MPN median in approved waters does not exceed 14/100 ml and not more than 10 percent of the samples exceed 43/100 ml.

Conditionally Approved:

Areas generally of the same quality as approved however, the quality may temporarily vary because of sporadic impacts from non-point and point sources, rainfall, or seasonal activities. Shellfish may be harvested for marketing under conditions specified in a management plan.

Restricted:

Areas where a sanitary survey indicates there is a limited degree of pollution which renders the shellfish unsafe for direct marketing. The shellfish may be marketed after relaying or depuration. The median fecal coliform levels in restricted waters are between 14/100 and 88/100 ml with not more than 10 percent of the samples exceeding 260/100 ml.

Prohibited:

Areas where a sanitary survey indicates excessive concentrations of pollutants exist or where the potential exists for excessive pollutant concentrations. The median fecal coliform MPN exceeds 88/100 ml in the water or more than 10 percent of the samples exceed 260/100 ml. Shellfish may not be harvested from prohibited areas for human food use. Closed safety zones may be established around potential pollutant sources and are classified as prohibited areas.

All sampling procedures and laboratory analyses are conducted in accordance with the National Shellfish Sanitation Program (NSSP) guidelines. Areas closed to the harvesting of shellfish are posted with signs indicating the potential for serious illness from consuming shellfish harvested within these areas and outlining penalties for harvest violations.

Sampling stations are established at locations representative of variable sanitary water quality within shellfish areas. Many of these locations are positioned at classification boundaries to confirm established harvesting classifications. All 361 stations are sampled at least six times during the shellfish harvesting season (September 15 - May 15) (Table 7). Stations within waters that are classified conditionally approved are sampled monthly. There are also seven stations that are sampled six times during the season either on ebb or flood tide only.

Complete descriptions of station locations are included in Appendix D.

Table 7 Fixed-Station Shellfish Monitoring Program
Physical and Bacteriological Parameter Coverage
and Sampling Frequency

| arameter Group  | Parameter          | Water | Shellstock |
|-----------------|--------------------|-------|------------|
| Physical        | Tide Stage         | *     | NA         |
|                 | Water Temperature  | *     | NA         |
|                 | Air Temperature    | *     | NA         |
|                 | Wind Direction     | *     | NA         |
|                 | Salinity           | *     | NA         |
| Bacteriological | Fecal Coliform     | *     | **         |
| 3               | Total Plate Count  | NA    | **         |
|                 | <u>E. coli</u>     | **    | **         |
|                 | Sample Temperature | *     | **         |
|                 | Sample Type        | NA    | **         |
|                 | Species            | NA    | **         |
|                 |                    |       |            |

<sup>\*</sup>Sampled at least six times during harvesting season. \*\*Sampled as appropriate.

### IV. INTENSIVE SURVEYS AND SPECIAL WATER QUALITY STUDIES

### A. Point Source Wasteload Allocations

Intensive stream surveys are conducted for gathering field data for calibration or verification of water quality mathematical models and for the determination of the quality of the State's waters. It is the goal of the Department to calibrate models with measured field data when issuing point source wasteload allocations requiring advanced treatment. Emphasis and priority will be placed on gathering field data for issuance of wasteload allocations for 201 waste treatment facility projects. Stream surveys will be designed and carried out as described in the Basic Water Monitoring Program.

In addition to intensive stream surveys, time of travel studies to determine stream velocities for water quality model reaches will be conducted. These will be scheduled as needed and as resources allow for streams where data is lacking and complete surveys are not possible or feasible.

Stream surveys are projected for a five-year period and each year revised as needed, prioritized, and then included in the State Program Plan. Of these projected number of scheduled facility surveys each year, the actual number performed for publicly owned facilities will be completed first with the remaining number of industrial and private facility surveys completed afterwards. An effort will be made to complete all municipal surveys prior to permit issuance/reissuance.

Intensive stream surveys will be performed generally during the warmer months of May through October. Winter months are less desirable for intensive water quality surveys that are to be used for model calibration. This is based on the following factors:

- 1. Biochemical reaction rates and biological populations are lowered by the colder temperatures.
- 2. Generally, the flow in the streams is higher than normal and much less predictable.
- 3. Dissolved oxygen concentrations are higher due to higher saturation levels and lower temperatures.
- 4. For modelling purposes, it is desirable to conduct field studies which result in data closely aligned to the conditions under which water quality predictions are made. For example, predictions are normally based on low stream flows (7010).
- 5. On those occasions where seasonal limits are at issue, studies may be conducted during the winter months.

Study plans for all intensive surveys are submitted to the State Quality Assurance Management Office (SQAMO) for approval prior to sampling. All sampling and field analyses are performed according to <u>Standard Operating and Quality Control Procedures for Ambient Water Quality and Wastewater Facility Monitoring (SCDHEC) and</u>

<u>Procedures Manual for Stream and Wastewater Facility Flow Measurement</u> (SCDHEC).

#### B. Special Water Quality Studies

Special water quality studies are conducted on an as needed basis to determine cause and effect relationships in water bodies where trend monitoring indicates a deterioration in environmental quality and to provide legally defensible data on damage in situations where compliance monitoring indicates violation of permits and/or water quality standards. Special water quality assessments are often requested for water bodies having high or potentially high public water use values.

Special studies provide immediate and indepth investigations of specific environmental problems and involve practical research which leads to a better understanding of the water quality of the State of South Carolina. Each study is followed by a report which analyzes the data obtained during the study. These reports are available to all interested parties.

An investigation of specific environmental problems usually originates as an official request from other sections of EQC, such as Industrial Wastewater, Enforcement, the Modelling Section, District Services personnel, or Solid and Hazardous Waste. Studies may also be initiated in response to requests by private citizens or special interest groups. Once an official request to carry out a specific task has been received, the special studies group designs, receives approval, and implements the study. The results of such studies are reported primarily to the originator of the study request.

In conducting practical research, the special studies group generally relies on its own staff, as well as the scientific staff of other sections of EQC. The special studies staff designs and implements, or coordinates if other groups are involved, such studies and reports all findings to all interested parties.

Study plans for any special studies are submitted to the State Quality Assurance Management Office (SQAMO) for approval prior to sampling. All sampling and field analyses are performed according to Standard Operating and Quality Control Procedures for Ambient Water Quality and Wastewater Facility Monitoring (SCDHEC) and Procedures Manual for Stream and Wastewater Facility Flow Measurement (SCDHEC).

#### C. Lake Edgar A. Brown

A special study to document the causative factors contributing to the eutrophic state of Lake Edgar A. Brown, a 100 acre system located within the town limits of Barnwell, South Carolina, was begun in May 1988. The 18 month study is being jointly funded by EPA and SCDHEC under the Clean Lakes Program. Sampling was conducted for one year, with semi-monthly collections during the growing season (April-October) and monthly otherwise. Following interpretation of the study results, a set of restoration alter-

natives will be presented to those parties involved with lake stewardship.

A total of three stations were sampled, two within the lake, and one on Turkey Creek. Turkey Creek does not presently flow into Lake Brown. Flow was diverted in 1968 as part of an effort to control aquatic macrophytes.

#### Parameters to be analyzed:

| Depth                     | m                    |                      |
|---------------------------|----------------------|----------------------|
| Dissolved oxygen          | mg/1                 | Water column profile |
| Temperature               | °C                   | Water column profile |
| pH                        | SU                   | Surface and bottom   |
| Specific conductance      | umhos/cm             | Surface and bottom   |
| Total ammonia             | mg/1                 | Surface and bottom   |
| Nitrate-nitrite           | mg/1                 | Surface and bottom   |
| Total Kjeldahl nitrogen   | mg/l                 | Surface and bottom   |
| Total phosphorus          | mg/1                 | Surface and bottom   |
| Total orthophosphorus     | mg/l                 | Surface and bottom   |
| Dissolved orthophosphorus | mg/1                 | Surface and bottom   |
| Total alkalinity          | mg/l                 | Surface and bottom   |
| Chlorophyll <u>a</u>      | ug/l                 | Surface              |
| Secchi depth              | m                    |                      |
| Photic zone depth         | m                    | •                    |
| Extinction coefficent     |                      |                      |
| Phytoplankton enumeration | #/ml                 | Surface              |
| and identification        |                      |                      |
| Fecal coliform            | #/100 mT             | Surface              |
| Streamflow (Turkey Creek) | ft <sup>3</sup> /sec |                      |

#### D. Clean Lakes Program

South Carolina DHEC received a federal grant and conducted a lake classification evaluation during 1980-1981 entitled "South Carolina Clean Lakes Classification Survey," Technical Report No. 019-82. A final publication was submitted as part of the federal grant in 1982. This publication has been utilized by SCDHEC in making management decisions related to lakes in South Carolina, to provide information for 305b reports, and to inform the public of the conditions in the lakes studied.

SCDHEC has received a grant from EPA to update the Survey through a reassessment of all lakes during FY 1990, and to complete a report describing the trophic state of these lakes for inclusion in the 305b report. The updated report will include comparisons of data collected from the larger lakes during FY 1980-81, FY 1985, and FY 1990, as well as the data from minor lakes collected during FY 1980-81 and FY 1990. The data will also be used to rank the lakes according to trophic condition.

For ranking purposes, the seventeen (17) major public lakes of South Carolina will be considered in a separate grouping apart from the twenty-five (25) minor lakes addressed by this grant. The seventeen (17) major lakes are listed below:

Lake William C. Bowen
Clarks Hill Reservoir
Fishing Creek Reservoir
Lake Greenwood
Lake Hartwell
Lake Jocassee
Lake Keowee
Lake Marion
Monticello Reservoir

Lake Moultrie Lake Murray Parr Reservoir Lake Robinson

Lake Richard B. Russell

Lake Secession Lake Wateree Lake Wylie

#### The remaining 25 public lakes are:

Adams Mill Pond (Goodale St. Park)
Ashwood Lake
Boyd Mill Pond
Broadway Lake
Lake Edgar A. Brown
Lake Cherokee
Chester State Park Lake
Lake Conastee
Lake Craig
Lake Cunningham
Eureka Lake
Goose Creek Reservoir
Lake Johnson

Langley Pond (Horse Creek Pond)
Lake Long
Lake Oliphant
Prestwood Lake
Reynolds Pond
Rock and Cedar Creek Reservoir
Saluda Lake
Lake Thicketty
Vaucluse Pond
Lake Wallace
Lake Warren
Lake Yonah

Parameter coverage will be similar for the sampling of both groups of public lakes. Parameters to be measured and additional information are given below:

#### Parameter

Dissolved oxygen
Temperature
Conductivity
pH
Secchi Depth
Photic Zone Depth
Chlorophyll a
Algal Growth Potential
Total Kjeldahl Nitrogen
Ammonia
Nitrate-Nitrite
Total phosphorus
Orthophosphorus
Dissolved orthophosphorus

Profile
Profile
Surface and bottom
Surface

Surface
Headwaters and coves only
Depth-integrated
Depth-integrated
Depth-integrated
Depth-integrated
Depth-integrated
Depth-integrated
Depth-integrated

Quarterly sampling will be completed during FY 1990. During FY 1990-91, collected data will be used to compute two or more trophic state indices. These indices will be used to rank the lakes based on water quality and public use criteria.

#### V. WASTEWATER DISCHARGE COMPLIANCE MONITORING

All wastewater dischargers to the surface waters of the State of South Carolina must obtain a National Pollutant Discharge Elimination System (NPDES) Permit to discharge. This applies to all public and privately owned wastewater treatment facilities. The NPDES permit sets limits for physical and chemical characteristics of the facility effluent to protect the water quality of the receiving waterbody. A number of publicly owned treatment works (POTWs) have requirements in their NPDES permits to implement an approved pretreatment program, as well.

The purpose of the facility monitoring program is to insure that permitted effluent limitations are met and properly reported to the State, to insure proper operation and maintenance of wastewater treatment facilities, and to insure that the public's concerns and complaints concerning wastewater dischargers are answered effectively. This monitoring function encompasses the review of NPDES permit compliance schedules, review of NPDES self-monitoring data, inspection and evaluation of wastewater treatment facilities, collection and analysis of samples at wastewater treatment facilities, and investigation of complaints concerning wastewater treatment facilities or stream quality throughout the State.

The information gathered by the facility monitoring program is used by the State and EPA to determine permit compliance and to support enforcement actions. Inspection results are also useful in grant reviews and permitting functions. Facility monitoring is often included in water quality assessments as well.

Certain inspections are used to improve permittee performance through improved data quality and the provision of technical assistance. Of course, the facility monitoring program also serves to maintain a regulatory presence in the State.

The following sections detail the various means at our disposal to accomplish these goals.

#### A. Compliance Schedule Tracking

Schedules of Compliance for permits and administrative orders are maintained in a data file designated as the Permit Compliance System or PCS. This program was originally developed by EPA to track permit compliance and the State has assumed responsibility for maintaining and updating the file's data base. The Enforcement Section receives a PCS Quick Look Report containing scheduled compliance dates on a monthly basis. These dates are compared against actual compliance status. Achieved compliance is noted and noncompliance situations are suspended for further action by the enforcement staff; also, any amendments to compliance dates are input into the system.

#### B. NPDES Self-Monitoring

All NPDES permittees are required to collect and analyze samples of their own effluent at regular intervals for specific permit parameters. Self-monitoring data is transmitted to the Enforcement Section by the permittee in the form of a Discharge Monitoring Report (DMR).

Enforcement Monitoring Records are utilized to track NPDES self-monitoring information. For NPDES self-monitoring this system is utilized to assure timely submission by dischargers of DMRs and recording of reported values by effluent parameter for each NPDES DMR files are reviewed on a monthly basis to determine appropriate enforcement action required for failing to submit disand/or significant monitoring reports for In addition, permittees normally submit reports of violations. noncompliance covering significant effluent violations as they occur. These non-compliance reports, submitted in advance of DMRs, provide DHEC the opportunity to determine if there may be effluent problems requiring immediate investigations. After being logged and reviewed, all DMR's are sent to the Enforcement Section to be placed in PCS and then in the NPDES file for the particular facility to provide a readily available source of effluent data.

#### C. Federal Compliance Evaluation Inspections - (CEI)

The Compliance Evaluation Inspection (CEI) is a nonsampling inspection designed to verify permittee compliance with applicable permit self-monitoring requirements and compliance schedules. This inspection is based on record reviews and visual observations and evaluations of the treatment facilities, effluents, receiving waters, etc. The CEI is used for both chemical and biological self-monitoring programs.

During FY'89, CEIs will be performed on Publicly Owned Treatment Works (POTWs) only. Inspections of these municipal facilities are assigned the following priorities:

- 1. Completed PL 92-500 facilities (federally funded)
- 2. POTWs with Municipal Compliance Plan (MCP) or a Composite Correction Plan (CCP)
- 3. Major municipals
- 4. Minor municipals

#### The Inspection

The inspection is comprised of an evaluation of the physical equipment, laboratory records, discharge monitoring reports, and the operational records of the facility. The results of the inspection are reported on the EPA Form 3560-3. A two or three page narrative report summarizing the findings in each of 8 major areas evaluated

during the inspection is attached to the 3560-3 form. The 8 major areas evaluated are as follows:

- a. Permit Verification verification of name, address, discharge(s), receiving waters, etc., contained in the permit.
- b. Records and Reports determination of compliance with recordkeeping and reporting requirements stipulated in the permit.
- c. Facility Site Review examination of areas on the permittee's premises where pollutants are generated, pumped, conveyed, treated, stored or disposed.
- d. Flow Measurement installation, calibration and accuracy of flow measurement system is determined.
- e. Compliance Schedules where applicable.
- f. Self-Monitoring Program sampling frequency, type(s), parameters monitored, parameter limitations, sampling methodology are examined for compliance with permit.
- g. Operation and Maintenance a visual inspection of unit processes is conducted.
- h. Sludge Disposal the permittee's sludge management and disposal methods are evaluated.

#### Procedure

The accepted procedure for conducting the Compliance Evaluation Inspection is as follows:

- a. The facility evaluator notifies the permittee prior to the CEI by telephone. The permittee is instructed to have available all pertinent records for review.
- b. The evaluator completely fills out the appropriate checklists for each major section evaluated during the inspection.
- c. After completion and review of the inspection report, the completed form 3560-3, narrative report, and checklists are forwarded to the Facilities Compliance Section for review and distribution.

#### Follow-up

Follow-up evaluations will be made on deficiencies noted in initial Compliance Evaluation Inspections. The follow-up is as follows:

a. A letter emphasizing the deficiencies noted will be sent

along with the initial report to the owner. This letter will point out problems found during the inspection and request corrections or plans for corrections. This letter requires a response within thirty (30) days. Responses are forwarded to the District and to the Central files when received and reviewed.

- b. A memorandum accompanies a copy of the response in the District requesting the initiation of a follow-up field inspection. The actual follow-up evaluation can be comprised of a routine state operation and maintenance inspection with the emphasis placed on the status of necessary corrective actions to problems noted in the Compliance Evaluation Inspection report.
- c. If corrective action on the initially noted deficiencies has not been taken, the District should follow the Enforcement Procedures for Federal Compliance Evaluation Inspections until compliance is achieved.
- d. In many cases long range plans to solve problems are accepted is reasonable justification of certain deficiencies. In some cases active 201 participation is the most reasonable solution to present problems.

#### D. State Operation and Maintenance Inspections

These evaluations are designed to insure that wastewater treatment facilities are being properly maintained and operated in accordance with State and Federal regulations, such as NPDES permit schedules and accepted maintenance procedures.

The State Operation and Maintenance Program involves two types of inspections: routine and follow-up inspections. The State O&M inspections are the periodic inspections performed on each wastewater treatment facility in the State. Follow-up inspections are the inspections in which the evaluator returns to the facility to determine if the deficiencies noted in a previous inspection or follow-up letter have been corrected.

The State 0 & M inspections involve the actual visit to the treatment plant site and visual inspection of the facility. The inspector determines if the facility and the equipment involved are properly maintained and operated. Certain limited physical and chemical tests are run on the effluent to help the evaluator determine the plant's efficiency and effectiveness of operation.

The following parameters are collected:

#### **Effluent**

Temperature pH Dissolved oxygen Chlorine residual

The inspection program is not a totally regulatory program. The inspectors provide technical assistance to operators with regard to the proper operation and maintenance of wastewater treatment facilities. The inspection results are discussed with the operator, when possible, to let him know what corrective measures, if any, are needed.

#### Procedure

The following is the procedure followed for completing a routine facility evaluation:

- 1. Plan work schedule ahead of visits.
- 2. Review file (for previous evaluations, inspections, orders, Enforcement action, etc.) and make notes of items which were unsatisfactory on previous visits and carry file or parts needed.
- 3. Review the permit completely.
- 4. Inform appropriate person (immediate supervisor) of your planned daily visits.
- 5. Make every effort possible to contact owner or operator of the facility to be evaluated to inform him of inspection plans. The owner or operator is expected to accompany the evaluator during the evaluation.
- 6. If you are unable to contact owner or operator, obtain access and permission to evaluate facility.
- 7. Make appropriate observations and field tests to determine which processes are satisfactory or unsatisfactory. The facility evaluator must make observations and tests as indicated on the evaluation forms. Effluent tests are mandatory.
- 8. If the facility has records of O&M, check records and make comments.
- Reports must be completely filled out and signed by person making evaluation. Make appropriate remarks and recommendations. Deficiencies should be listed in remarks section of inspection form.
- 10. Record name of person you contacted. Have him sign inspection form when possible.

- 11. Inform the owner or operator of findings and ask him to make any needed corrections.
- 12. Those facilities found to require a follow-up visit must be scheduled and followed up at the specific time. Plan for follow-up should be stated on inspection form.
- 13. Dissolved oxygen, temperature and pH should be run on the stream above and below the facility discharge when observations indicate possible problem.
- 14. If samples are collected for laboratory analysis, coordination should be made with laboratory and results should be included with evaluation report.
- 15. If facility is not operated by a properly certified operator, this should be indicated on the evaluation report. Appropriate action should be initiated by the District Director to insure action is taken to retain an operator of the appropriate grade.

The inspector's reports are reviewed in the district before the copies are distributed. One copy of the inspection is sent to the facility owner, one copy to the operator, one copy is kept in the district office, and the original is sent to Central Office to be reviewed, logged and sent to the Central Files. With every routine inspection, an update is made to the Carolina File Wastewater Inventory List. Inspection results are entered in PCS.

Suspense files on problem facilities should be maintained in the District Office. The facility evaluators should also keep a list of facilities which need to be sampled for possible enforcement action. Those lists should be forwarded to the regional monitoring supervisor periodically to be scheduled for sampling.

Follow-up inspections are a result of inadequacies being found during a State 0&M inspection. If the follow-up inspections show that the inadequacies have not been corrected and the district staff has exhausted its resources in getting the facility in proper operational condition, then all necessary information concerning the facility can be addressed at a meeting at the District level. Enforcement action should follow the enforcement procedures for State 0&M Inspections until compliance is achieved.

# E. <u>Compliance Sampling Inspections</u>

Compliance sampling inspections are performed to determine if wastewater treatment facilities are operating as permitted and designed, to collect data for comparison with self-monitoring data, and to support enforcement action.

Sampling of facilities are assigned the following priorities:

- 1. Federal Compliance Sampling Inspections.
- 2. Enforcement Section or EPA requests.
- 3. Engineering Division request.
- 4. District personnel request.
- 5. Routine sampling.

#### Federal Compliance Sampling Inspections

Federal Compliance Sampling Inspections are conducted on all major dischargers and specific minor dischargers on an annual basis. The Federal Compliance Sampling Inspection requires that an inspection of the facility be conducted by the EQC district facility evaluator. This inspection is to be made on one of the three (3) days required for effluent sampling. The information gathered during this inspection is reported on the EPA Form 3560-3. A list of the dischargers receiving Federal Compliance Sampling Inspections for each EQC district appears in Appendix E.

A detailed inspection of the facility's records, regular operation flow measurement devices, sampling maintenance, laboratory, and other permit conditions for compliance verification is conducted by the district facility evaluator. If any deficiencies are found which can be corrected with little or no expense to the responsible facility officials, a notice of deficiency is issued to the facility official. This official is allowed ten (10) working days to respond to the deficiencies noted. If at the end of ten days no response has been acknowledged, the facility evaluator should so state in his report for possible enforcement action. Effluent sampling is included in the Federal Compliance Sampling Inspection. Procedures for sampling the effluent are the same as discussed below for routine State Compliance Sampling Inspections.

After the sampling and inspection has been completed, the laboratory results are mailed to the Analytical Services Division. The 3560 form, checklists, and narrative report are mailed to the Facilities Compliance Section. All data should be completed and mailed to Columbia within two weeks of completion of sampling.

#### Requested Sampling Inspections

Upon receiving a request for compliance sampling, a review of historical data and the NPDES permit regulations for the facility is conducted to determine if previous sampling data will be sufficient. If additional sampling is needed, a request, including all parameters desired is sent to the District Office responsible for sampling that facility. This is coordinated by personnel in the Central Office Facilities Compliance Section. A written request for the sampling is then made to the District monitoring supervisor. Sampling and reporting procedures are the same as for routine State Compliance Sampling Inspections. (see below)

# Routine State Compliance Sampling Inspections

Routine state compliance sampling inspections are set up by the District monitoring supervisor. A schedule of facilities to be sampled is sent to the Facilities Compliance Section. It is a requirement that a monthly schedule of expected facility sampling be sent to the Central Office.

All routine state compliance sampling inspections require two days of sample collections. The set-up of flow recorders and automatic samplers is accomplished on an initial sampling day. The samples are

collected from the automatic sampler on two consecutive days of the sampling period and taken to the District laboratory for analyses. Samples are collected according to the NPDES permit requirements and SCDHEC's Standard Operating and Quality Control Procedures for Ambient Water Quality and Wastewater Facility Monitoring (SCDHEC) and Procedures Manual for Stream and Wastewater Facility Flow Measurement (SCDHEC).

After completion of the sample analyses the laboratory data sheets are sent to the Analytical Services Division which forwards them to the Facilities Compliance Section to be verified, reviewed and logged in. The data then goes to the Data Systems Management Section for processing and keypunching.

After keypunching, the data is edited and a compliance monitoring report is generated. The data is compared with the NPDES permit limits to determine if any permit violations occurred. A formal report is then compiled by Facilities Compliance Section personnel and sent to the responsible facility official. Copies are transmitted to the Central Office files, the District, and EPA (majors). A written response to the agency for any significant permit violation is usually requested.

Follow-up inspections are conducted on deficiencies noted in the CSI as outlined under the CEI section.

#### F. Performance Audit Inspections

The Performance Audit Inspection (PAI) is used to evaluate a permittee's self-monitoring program. The purpose of the inspection is not only to determine the quality of self-monitoring but also to assess the reliability of the data reported by the permittee. A field evaluation is conducted which includes an evaluation of flow measurement, sampling, records, and operation and maintenance. Facilities Compliance Section personnel perform this part of the PAI. A laboratory evaluation is also conducted which includes a review of analytical methods and procedures, sample handling and preservation, quality assurance, and records. The EQC Laboratory Certification Section performs this part of the PAI.

The State routinely performs twelve (12) PAIs annually. Others may be performed as necessary. EPA also conducts a number of PAIs in the State each year.

### G. <u>Technical and/or Diagnostic Evaluations</u>

The technical and/or diagnostic evaluation focuses primarily on wastewater treatment facilities that are not in compliance with their permit requirements. The purpose of the evaluation can be to either evaluate causes of non-compliance in support of enforcement actions or to assist those facilities without self-diagnostic capability. The evaluation identifies major plant deficiencies in operation, design, and/or construction. Other aspects of the permit program such as the permittee's self-monitoring program can be included in the technical evaluation if deemed necessary.

EQC conducts a minimum of twelve (12) technical and/or diagnostic evaluations annually.

#### H. Pretreatment Program Audit and/or Inspection

The pretreatment program audit and/or inspection is conducted annually on those publicly owned treatment works (POTWs) that are required by regulation to have an approved pretreatment program. The purpose of the audit and/or inspection is to determine whether the program is being adequately implemented by the POTW. The audit would include a review of the following items:

- 1. POTW treatment facility background information.
- 2. POTW pretreatment program background information.
- Evaluation of POTW pretreatment program changes.
- 4. Legal authority evaluation.
- 5. Application of pretreatment standards.
- 6. Compliance Monitoring and Enforcement POTW personnel.
- 7. Compliance Monitoring and Enforcement industrial user file review.
- 8. Data management and public participation.
- 9. Program resources review.

EQC conducts either a pretreatment program audit or pretreatment compliance inspection at least annually on each POTW required to have a pretreatment program.

The pretreatment program audits are conducted at each POTW facility whose permit expires in the forthcoming year. The pretreatment compliance inspections are performed on all other POTW's in the same year.

Industrial user inspections and tours of the facilities are included in the audit procedures. A report of the findings is forwarded to the POTW for corrective actions where appropriate.

The pretreatment program audits and/or inspections are being conducted by personnel of the Facilities Compliance Section, Central Office.

#### VI. QUALITY ASSURANCE/QUALITY CONTROL PROCEDURES

It is the policy of Environmental Quality Control (EQC) that necessary quality assurance (QA) activities be conducted within the State of South Carolina to demonstrate that all environmental data generated, processed, or used will be scientifically valid, defensible, and of known and acceptable precision and accuracy. It is also the policy of EQC that all reported data will include documented precision and accuracy and be complete, representative, and comparable. The quality of all data generated shall meet or exceed all EQC and EPA program requirements.

The Deputy Commissioner for Environmental Quality Control has the overall responsibility for the development, implementation, and continued operation of EQC's QA Program. To insure that EQC's QA policy is uniformly applied to the generating and processing of all environmental data, a State Quality Assurance Management Office (SQAMO) has been established.

This office is responsible for the Environmental Quality Control Assurance Program. Environmentally-related measurement activities conducted by or for EQC shall be done only with the approval of the State Quality Assurance Management Office (SQAMO) after assuring that adequate quality assurance guidelines and procedures have been incorporated. This includes study-planning, sample collection, preservation and analysis, data handling, and use of physical, chemical, biological, and other data related to the effects, sources, transport and control of pollution, as well as personnel review and training.

To accomplish these goals the Water Quality Monitoring Section and Facilities Compliance Section have developed and instituted SQAMO approved field study procedures and documentation, and data review in addition to participating in the laboratory certification program and routine EPA operating overview. Some specifics of these Sections' QA/QC activities include:

- 1. Submission of all study plans to SQAMO for review and approval prior to implementation.
- 2. Use of bound field logbooks by all monitoring and facility evaluation personnel. In these logbooks are recorded all of the routine daily meter calibration results, remarks and notes relating to all activities, and values for all field measured parameters as well as time, date, station location, and collector identification information associated with all sampling activities. This logbook format provides a legally admissible document for any court supervised compliance/enforcement proceedings.
- 3. Regular reviews and updates of SCDHEC's Standard Operating and Quality Control Procedures for Ambient Water Quality and Wastewater Facility Monitoring (SOP), Procedures Manual for Stream and Wastewater Facility Flow Measurement, and Standard Operating and Quality Assurance Procedures for Biological Services. These documents describe in detail the field sampling procedures, meter calibration and maintenance procedures, sample chain-of-custody documentation,

- sample preservation, holding times and recommended sample containers specifications, data sheet examples, and data submission requirements.
- 4. At least twice yearly all field personnel are accompanied on sample collection activities by the quality assurance officer for evaluation of adherence to standard operating procedures (SOP) for QA/QC. These evaluations each year are for water quality monitoring SOP review and for facility compliance sampling SOP review.
- 5. Approximately every other year the EPA conducts on-site routine overviews of SCDHEC's QA/QC procedures.
- 6. Water Quality Monitoring Section personnel participate in the laboratory certification program by assisting in the laboratory reviews conducted every three years (see subsequent section for a discussion of this program).
- 7. Data checking and editing is performed on data by the quality assurance officer after data punching but before final submission to the EPA STORET system. The STORET system performs additional data checks, and any errors reported are rechecked by the QA officer.

#### VII. EMERGENCY RESPONSE

The Emergency Response Section, now part of the Bureau of Solid and Hazardous Waste Management, was established to respond to and coordinate emergency activities for all Office of Environmental Quality Control emergencies. The Emergency Response Section has the responsibility for emergencies related to water, air, drinking water, solid waste, wastewater, etc.

#### A. Spill Response Team

Data collected during a spill investigation is for the dual purposes of establishing the spiller, if unknown, and as a means of measuring the actual or potential environmental damage caused by the spill. In this manner, the Department meets its directives of Section 48-1-50, Subparagraph 21 of the South Carolina Code of Laws which directs the Department to "establish the cause, extent, and origin of damages from waste including damages to the fish, waterfowl, and other aquatic animals and public property which result from the discharge of waste to the waters of the State."

To encourage industry and transportation to minimize or eliminate spills, a State Contingency Plan for oil and hazardous materials has been developed. This plan was approved by the Department of Health and Environmental Control Board. Copies have been distributed to the following:

Fire Departments

Law Enforcement

Civil Defense Agencies

S.C. Highway Department

S.C. Highway Patrol

Industrial Section Sector

Oil Jobbers

Miscellaneous

Engineering Firms and Interested Citizens

Other Governmental Agencies

This contingency plan is reviewed and updated every three (3) years, or more frequently if needed. We anticipate that the updated contingency plan will be reissued by late spring of 1990.

A twenty-four hour telephone number has been established to facilitate spill reporting. The number is 253-6488. Between 8:30 A.M. and 5:00 P.M. this number is manned by personnel in Emergency

Response, after 5:00 P.M., an answering service intercepts all calls, then contacts the person who is on call to respond to the spill. Many spills are reported through this number and greater emphasis will be placed on the reporting of all spills.

A spill response team has been established in each of the State's twelve districts. This has enhanced response time and provides for better local coordination through on-scene coordinators (OSC). Additional training sessions will be held in each of the twelve districts during FY'89. Each district office has at least one copy of a procedures manual and two reference manuals involving spills of oil and hazardous materials.

The Emergency Response Section utilizes a computer system known as OHMTADS (Oil and Hazardous Material Technical Assistance Data System). This system is designed as a source of information and technical assistance which can be utilized during a serious spill situation. The information obtained can be relayed from the Central Office to the OSC in the field. A portable OHMTADS terminal telephone coupler apparatus is available for use at the scene of a spill. Access to Hazardline is also available as a source of additional information not available through OHMTADS.

To encourage the development of a local contingency plan and mutual assistance groups, meetings have taken place with local governmental agencies (such as civil defense) and industries to develop spill cooperatives and response assistance groups.

To coordinate response activities with other governmental agencies we work very closely with the Environmental Protection Agency, the United States Coast Guard, South Carolina Department of Highway and Public Transportation, South Carolina Water Resources Commission, the Emergency Preparedness Division of the South Carolina Adjutant General's Office, and South Carolina Wildlife and Marine Resources in the reporting and cleaning up of spills. This cooperation is necessary to provide for efficient, coordinated and effective action in minimizing damage from oil and hazardous substances. In addition, information is coordinated through other Department of Health and Environmental Control bureaus such as air, wastewater, water hygiene and special environmental programs. Spill data is also utilized by other Bureaus within the Department for enforcement actions, by concerned citizens for information collection, and frequently reviewed by attorneys during case preparation.

# B. <u>Spill Prevention Control and Countermeasures (SPCC)</u>

To prevent the discharge of oil from non-transportation related onshore and offshore facilities into or upon the navigable waters of the United States we will randomly investigate facilities to determine if SPCC plans have been prepared and if key personnel are aware of and understand the plan. These investigations will be conducted both singularly and collectively with E.P.A. Region IV personnel on all non-transportation related onshore and offshore facilities, which due to their location, could reasonably be expected to discharge oil in harmful quantities, as defined in Part 110 of 40 CFR.

The regulation is very specific for the preparation and implementation of Spill Prevention Control and Countermeasure Plans. existing facilities, either onshore or offshore, the preparation date was July 10, 1974, and the implementation date was January 11, 1975. Anyone who has more than one tank above the ground whose aggregate capacities are greater than 1,320 gallons, or any single tank whose capacity is greater than 660 gallons, must have a SPCC plan fully implemented. For tanks that are buried and whose capacities or aggregate capacities are greater than 42,000 gallons, the identical requirements exist. Tanks with lesser volumes, either above the ground or buried, are exempt from this requirement. A fully implemented plan is one which sets forth in detail how a spill can be prevented, how a spill will be handled once it occurs, and the emergency procedures to be followed. The plan must be in accordance with good engineering practices and certified by a registered professional engineer. The plan must be kept at the facility to which it pertains if the facility is manned for eight (8) hours a day, or at the nearest field office if subject facility is not manned. Plans must be updated every three years. A certain amount of effort will be devoted to the reinspection of some facilities.

#### C. Fish Kill Program

Fish kill data is collected for the purpose of assisting in the determination of the cause of the kill. Data collected is used to help establish such trends as mismanagement of pesticide/herbicide application, pollution sources (both point and non-point) and natural phenomenons resulting in environmental stress. The fish kill data is available for use by other bureau's in assessing any environmentally sensitive areas, by interested citizens, and fellow agencies such as the South Carolina Department of Wildlife and Marine Resources.

Fish mortalities result from a variety of causes, some of natural origin and some man-induced. It is recognized that speed is all-important in the initial phases of an investigation. Therefore, a twenty-four hour telephone number has been established for the report of fish kills. The number is 253-6488. Between 8:30 a.m. and 5:00 p.m. this number is manned by personnel of the Emergency Response Section. After 5:00 p.m., the answering service intercepts all calls, and then contacts the person from the Emergency Response Section who is on call.

All fish kills should be reported initially to the Emergency Response Section via the 24-hour telephone number. The report should come to this number even if the district office is first notified of the kill. The Emergency Response Section will assist in co-ordinating and dispatching field investigators to the site of the fish kill.

Once a kill is reported, a team of specially trained individuals is dispatched to the site. Since there is always the possibility of legal liability associated with a kill, a carefully developed field procedure is available for immediate activation.

When a kill report is received, maps of the area to be investigated are consulted to determine the best access points, and to locate known industrial, municipal, and other potential sources of pollution.

A fish kill response team has been established in each of the State's twelve DHEC districts. This has enhanced our response time and provided for better local co-ordination through district personnel. We have assembled a standard fish kill kit. Sixty complete fish kill kits have been distributed among the Central and twelve district offices. Each kit consists of the following: ice chest, specimen containers, bacteriological, biological, and chemical samples containers and preservatives. In conjunction with the above, an updated procedure manual has been distributed to each District Office as well as the South Carolina Wildlife and Marine Resources. Fish kill training seminars have been conducted to broaden the knowledge of the investigators and the scope of the investigations.

Whenever public waters are involved, DHEC investigators should contact an official of the S.C. Wildlife and Marine Resources Division to co-ordinate fish kill investigations between the two departments. The fisheries' biologist should be contacted if possible. If he is not available, a member of the law enforcement division should be called. It should be noted that the Wildlife Division is restricted to freshwater fish kills, and the Marine Resources Division restricts itself to the investigation of fish kills in saline waters. Marine Resources Division is located in Charleston, South Carolina.

The extent of investigation of a given fish kill lies in the extent of the kill, the numbers and kinds of fish involved, and the resources available for the investigation. Following a decision to investigate, the investigation should continue until a cause is determined, or until all known potential causes have been eliminated as being implicated in the kill.

Analytical Services Division laboratories analyze all of the samples collected on fish kill investigations except for biological samples. They are alerted and given an estimate of the number and kinds of samples, and date of arrival.

If the cause of a kill can be determined to be man induced, a report is submitted to the Division of Water Quality Assessment and Enforcement of the Department of Health and Environmental Control for enforcement action. If the cause of a kill cannot be determined after investigation of all possible sources, then the Department of Health and Environmental Control will inform these possible sources that a kill has occurred and that the Department of Health and Environmental Control will ask them to investigate further and determine if a spill may have occurred accidentally which could have caused the kill.

# D. <u>Technical Assistance</u>

With the promulgation of the hazardous material regulations, there is a definite need for additional training. Training is needed in the following areas: chemical identification, personnel protection during

spill investigations, spill investigations, reporting techniques and data collection.

We are currently developing an in-house training course to encompass the areas of operation/maintenance of hazardous atmosphere monitoring equipment, response safety, and containment/cleanup techniques. Each District response person will receive at a minimum one safety and response technique training course. Central Office personnel receive a respiratory safety training course annually.

Training for the Emergency Response Program is developed from both in-house and EPA sponsored training courses.

#### VIII. COMPLAINT INVESTIGATIONS

#### A. Purpose

The main purpose for the investigation of complaints is to determine if a pollution or health hazard exists and to correct problems found. Another reason is to serve the public and to make the public aware of action taken by this agency.

#### B. Strategy

Because monitoring personnel are located in 12 District offices around the state, we are normally able to provide prompt response, follow-ups, and documentation of all complaints referred by the public or through a member of the legislature. This activity is scheduled in such a manner that provides minimal disruption of the normal work schedule. State law provides that where a facility inspection is required, results of the inspection must be reduced to writing with a copy furnished to the complainant and the party being investigated. Correction of the problem is made voluntarily in most cases, but necessary enforcement can be taken under the Pollution Control Act by the Enforcement and NPDES Administration Division.

#### C. Complaint Investigation Policy

Whenever possible, complaints should be filed with the district office having jurisdiction over the complainants location (see Table 9).

Telephone complaints received in the central office will be documented and referred to the appropriate District Director by telephone or radio. Central Office personnel will listen to the complaint, obtain the complainant's name and phone number, and advise him that the proper person will contact him by phone as soon as possible. It will then be the responsibility of the District Director to obtain the necessary information from the complainant and follow through with the investigation without delay.

Complaint letters received in the Central Office will be acknowledged by a letter from this office and referred to the District Director for response. District Directors are advised that any and all assistance possible from this office will be furnished on request, but complaint investigation and proper documentation in our files is the specific responsibility of the District Director. We recognize the necessity for latitude and the exercise of professional judgement on the part of the District Director in complaint procedure and documentation. Again, with the express understanding that the handling of complaints is the responsibility of the District Director, the following is offered relative to proper documentation:

1. A memorandum to the file, (handwritten if necessary) covering complaint specifics and disposition, is considered to be the <u>absolute minimum</u> (copy to wastewater files). The standard

# Table 8

# Office of Environmental Quality Control EQC District Directory

| APPALACHIA I<br>(Anderson, Oconee Counties)  | Environmental Quality Control Office<br>220 McGee Road<br>Anderson, S.C. 29621 260-5569   |
|--|---|
| APPALACHIA II<br>(Greenville, Pickens Counties)  | Environmental Quality Control Office<br>301 University Ridge, Suite 5800<br>Greenville, S.C. 29601 242-9850                       |
| APPALACHIA III<br>(Spartanburg, Cherokee, Union<br>Counties)                                     | Environmental Quality Control Office<br>151 E. Wood Street<br>Spartanburg, S.C. 29303 596-3800                                    |
| <pre>CATAWBA (Lancaster, Chester, York Counties)</pre>   | Environmental Quality Control Office<br>1001 W. Grace Street<br>Lancaster, S.C. 29720 285-7461<br>PO Box 100, Fort Lawn, SC 29714 |
| CENTRAL MIDLANDS (Richland, Lexington, Newberry, Fairfield Counties)                             | Environmental Quality Control Office Building No. 5, P.O. Box 156 State Park, S.C. 29147 737-7015                                 |
| <pre>LOW COUNTRY (Beaufort, Jasper, Colleton,    Hampton Counties)</pre>                         | Environmental Quality Control Office<br>149 Ribaut Square<br>Beaufort, S.C. 29902 524-9760  |
| LOWER SAVANNAH (Aiken, Orangeburg, Barnwell, Bamberg, Allendale, Calhoun Counties)               | Environmental Quality Control Office<br>117 Marion Street, NE<br>Aiken, S.C. 29801 648-9561                                       |
| <u>PEE DEE</u><br>(Florence, Dillon, Marion, Darling-<br>ton, Chesterfield, Marlboro Co.'s)      | Environmental Quality Control Office<br>3204 Industry BoulevardRoute 11<br>Florence, S.C. 29501 662-3522                          |
| TRIDENT<br>(Charleston, Berkeley, Dorchester<br>Counties)  | Environmental Quality Control Office<br>1000 Air Park Road<br>Charleston Heights, S.C. 29418 554-5533                             |
| <pre>UPPER SAVANNAH (Greenwood, Abbeville, Laurens,    Saluda, Edgefield, McCormick Co's.)</pre> | Environmental Quality Control Office P-129 One Park Avenue Greenwood, S.C. 29646 223-0333   |
| WACCAMAW<br>(Horry, Georgetown, Williamsburg<br>Counties)  | Environmental Quality Control Office 1705 Oak Street Myrtle Beach, S.C. 29577 448-1902  |
| WATEREE<br>(Sumter, Kershaw, Lee,<br>Clarendon Counties)<br>Mailing Address:                     | Environmental Quality Control Office<br>105 N. Magnolia Street<br>Sumter, S.C. 29151 778-6548<br>P.O. Box 1628 778-1531           |

complaint investigation form should be used wherever practical since it will provide file documentation.

- 2. A facility owner has not been legally notified of an unsatisfactory situation unless he has been notified in writing. If, in the judgement of the District Director, the matter investigated may result in administrative or court action by this agency, the owner is to be properly notified with a copy to our files. In instances where a magistrate's warrant to enter and inspect is issued, we have no choice but to reduce the results of such inspection to writing with a copy to the owner.
- 3. Many complaints, by their nature, necessitate a letter to the complainant covering results of the investigation and corrective measures taken. It is understood that copies of such letters will be sent to wastewater files (or appropriate program file).
- 4. In order that copies of letters and other documentation may be properly filed, it is requested that they be forwarded to the attention of Enforcement Section, Bureau of Wastewater and Stream Quality Control.
- 5. Poor or incomplete documentation will very effectively prevent the Department from taking proper enforcement action.
- 6. Use of the complaint investigation form is highly recommended.

#### IX. DRINKING WATER SUPPLIES MONITORING PROGRAM

The monitoring program for drinking water supplies is divided into the following analytical groups:

- Α.
- Microbiological Inorganic Chemicals Organic Chemicals В.
- С.

| Α. | MICF | ROBIOLOGICAL  | Projected Samples Per Year |
|----|------|---|----------------------------|
|    | 1.   | Routine Sampling<br>a. Repeat Samples   | 13,000<br>1,300            |
|    | 2.   | Town Surveys  | 3,400                      |
|    | 3.   | Sanitary Surveys  | 500                        |
|    | 4.   | Non-Routine Sampling  | 5,000                      |
|    | 5.   | Private Well Samples  | 6,000                      |
| В. | INOF | RGANIC CHEMICAL   |                            |
|    | 1.   | Routine Sampling (Public Complete Analysis Ga. Surface Water b. Groundwater (Community) c. Groundwater (non-transient non-community) d. Repeat Sampling | 85<br>545                  |
|    | 2.   | Routine Sampling (Nitrate Analysis) a. Groundwater (non-community) b. Repeat Sampling   | 310<br>30                  |
|    | 3.   | Controlled Fluoridation Program (Fluoride Analysis) a. Repeat Sampling  | 1,500<br>100               |
|    | 4.   | Corrosion Monitoring (Metals Analysis)  | 400                        |
|    | 5.   | Sanitary Survey (Public Complete Analysis Gr  | oup) 200                   |
|    | 6.   | Non-routine, Investigative Samples  | 1,400                      |
|    | 7.   | Private Well Sampling (Private Routine Analy Group)   | sis 3,754                  |
| c. | ORG/ | ANIC CHEMICAL   |                            |
|    | 1.   | Surface Water Supplies - Routine<br>a. Repeat Samples   | 85<br>8                    |
|    | 2.   | Non-Routine Samples   | 550                        |
|    | 3.   | Private Well Samples  | 1,580                      |

|    |  | Projected Samples Per Year |
|----|--|----------------------------|
| 4. | Sanitary Surveys   | 150                        |
| 5. | Trihalomethane Monitoring a. Greater than 10,000 population b. Less than 10,000 population | 140<br>94                  |
| 6. | Volatile Organic Compound Monitoring (including 51 unregulated compounds)                  | 3,094                      |

#### X. GROUND-WATER PROTECTION

The Ground-Water Protection Division has the responsibility to develop a program to control and prevent the pollution of ground water in South Carolina. Technical and policy making assistance is provided to the Bureau of Drinking Water Protection, Bureau of Water Pollution Control, other State and Federal agencies, and the general public.

#### A. Permit Issuance

The responsibility for issuing permits for land disposal of wastes is assigned to the Bureau of Solid and Hazardous Waste Management and the Bureau of Water Pollution Control. However, prior to issuance of a permit, the Ground-Water Protection Division is called in to technically review the plans and specifications and make a site investigation relative to the potential effects on ground-water quality at the site. An assessment of the geohydrological characteristics of the site is made by test drilling and recommendations are provided for issuance or denial of the permit, for conditions of the permit, and for ground-water quality monitoring.

The objectives of the ground-water monitoring program are:

- a) To obtain data for the purpose of determining baseline conditions of ground-water quality at the site.
- b) To maintain a monitoring tracking system to ensure permit compliance.
- c) To provide data for the early detection of ground-water pollution or contamination, particularly in ground-water recharge areas and in areas of significant ground-water use.
- d) To identify existing and/or potential ground-water pollution sources and to maintain surveillance of these sources, in terms of their impact on ground-water quality.
- e) To provide a statewide data base upon which management and policy decisions can be made concerning the surface and subsurface disposal of wastes and the protection of ground-water resources.

#### B. Enforcement

When a ground-water contamination problem is discovered, either from monitoring of a permitted site or from unregulated activities, the Division of Drinking Water Quality and Enforcement and/or the permitting program(s) pursue enforcement action. The purpose is to stop further pollution of ground water and to assess the severity and extent of the problem. The responsibility for the investigation is usually placed on the owner of the facility but occasionally, either because the owner is uncooperative or unknown, the study is performed by the Ground-Water Protection Division. Recommendations are made to the appropriate enforcement section(s) throughout all phases of the enforcement action until a suitable solution to the problem is reached.

#### C. Water Supply

The Water Supply Construction Division has the authority of permitting the construction or modification of public water supply systems in the state. Technical assistance is provided to the Water Supply Construction Division by the Ground-Water Protection Division by reviewing public water-well specifications to ensure proper well-construction standards are being met. Ground-water conditions as indicated by the monitoring program are considered in the review of the specifications and the proposed well location. Technical assistance is provided to individual well owners upon request. The Water Supply Construction Division private well program handles routine water-quality problems but when there are hydrogeological aspects, both related to quality and quantity, the Ground-Water Protection Division provides assistance to the well owner.

Certification of well drillers through the Board of Certification of Environmental Systems Operators has been implemented. In addition, amendments to the State Safe Drinking Water Act authorizes regulation of the construction, maintenance, operation, and abandonment of wells by standards to be established by an Advisory Committee to the Board. The standards were implemented on June 28, 1985.

#### D. 106 Program

The Ground-Water Protection Division has been given the responsibility for development of the ground-water portions of the 106 water-quality management planning effort. Current projects being developed under 106 are as follows:

- a) Continual evaluation of the implemented comprehensive ground-water protection strategy for South Carolina with attendant public participation and awareness programs;
- b) Assessment of ground-water recharge for aquifer systems in South Carolina;
- c) Development and implementation of ground-water quality standards systems for South Carolina.

- d) Development of an ambient ground-water quality monitoring network statewide.
- e) Develop and maintain a ground water contamination site inventory.

#### E. Underground Injection Control Program

The Ground-Water Protection Division activities required under primacy of the Underground Injection Control Program include:

- a) Designation of underground sources of drinking water;
- b) Development and maintenance of an inventory of injection wells;
- c) Implementation of permitting for Class II, III, and IV A injection wells;
- d) Surveillance and investigation of injection facilities;
- e) Provision for training activities to support the U.I.C. program;
- f) Development and maintenance of data management system;
- g) Provision for public participation and the dissemination of information regarding ground-water protection.

# F. Underground Storage Tank Program

The Ground-Water Protection Division is responsible for the implementation of the Underground Storage Tank Control Regulations. Regulated activities include:

- a) Notification of existing underground storage tanks for development of a tank inventory;
- b) Permitting of new underground storage tank systems;
- c) Surveillance and investigation of all underground storage tank facilities:
- d) Overseeing all phases of leak assessments and remediations from underground tanks.
- e) Underground storage tank training opportunities;
- f) Development and implementation of automated data management system;
- g) Provision for public participation and dissemination of information concerning underground storage tanks.
- h) Administering the Federal UST Trust Fund Cooperative Agreement to address leaking UST's with no responsible party.

i) Development and implementation of programs as mandated by State SUPERB Act.

# XI. SOLID AND HAZARDOUS WASTE FACILITY MONITORING PROGRAM

It has been recognized nationally that hazardous waste land disposal facilities are the known or potential sources of harmful contamination to the nation's ground-water supplies. facilities have been determined to have inadequate ground-water monitoring systems to detect such contamination. In South Carolina, there are thirty-two hazardous waste land disposal facilities regulated under the South Carolina Hazardous Waste Management Regulations. These facilities are required to monitor groundwater in the upper most aquifer and if contamination is detected, to conduct further comprehensive Additionally, pursuant to the federal 1984 Hazardous and assessments. Solid Waste Amendments to the Resource Conservation and Recovery Act, solid waste management units located at these and an additional 50 or so facilities will be evaluated to determine if release of hazardous constituents have occurred. Ultimately, contamination from hazardous and solid waste management units must be remediated through corrective action programs.

Consistent with Federal mandates, SCDHEC through its Bureau of Solid and Hazardous Waste Management conducts periodic inspections and evaluations of these groundwater monitoring systems. As a part of these oversight activities, ground-water samples are taken and analyzed. This ground-water information is utilized by Department staff in determining the adequacy of these monitoring systems. Furthermore, such data is invaluable in determining the reliability of results provided by the regulated community.

#### A. Solid Waste Facilities

#### Ground-Water Monitoring

Ground-water monitoring wells are located after approval from the Hydrogeology Division. An effort is made to determine the direction of flow of the ground water. One (1) well is then located hydraulically upgradient and at least two (2) wells are located hydraulically downgradient. Circumstances at the site may dictate additional wells (e.g., extremely large sites, complex geology).

To establish background conditions, wells are sampled quarterly for one (1) year. After background is established, monitoring may be reduced to semi-annual and annual monitoring. Changes in water quality would serve as an indicator that ground water may be impacted by the waste disposal activities. In addition to SCDHEC sampling, solid waste facilities submit all data that they collect.

Analyses normally required of owners for sanitary landfill wells are:

#### To Establish Background Conditions (quarterly for 1 year)

| pH                   | Barium   | Endrin          |
|----------------------|----------|-----------------|
| Specific conductance | Cadmium  | Lindane         |
| Total organic carbon | Chromium | Methoxychlor    |
| Chlorides            | Lead     | Toxaphene       |
| Fluoride             | Mercury  | 2,4-D           |
| Sulfates             | Selenium | 2,4,5-TP Silvex |
| Nitrates             | Silver   | Water Level     |
| Arsenic              |          |                 |

#### After Background Conditions are Established

| <u>Semi-Annually</u>  | <u>Annually</u>                   |
|---|-----------------------------------|
| pH<br>Specific conductance<br>Total Organic Carbon<br>Water Level | Chlorides<br>Sulfates<br>Nitrates |

When laboratory results show significant values in excess of allowable drinking water standard criteria for water quality, a determination will be made on the necessity of a leachate collection and treatment system to prevent ground water contamination. Other remedial measures may be considered (e.g., clay or impervious cover to restrict the flow of surface water through the waste).

# B. <u>Hazardous Waste Land Disposal Facilities</u>

#### Ground-Water Monitoring

EPA's Technical Enforcement Guidance Document is the primary guidance under which ground-water is monitored. A ground-water monitoring system must be capable of immediately detecting a release of hazardous waste or constituents into the uppermost aquifer and hydraulically interconnected aquifers. At least one (1) well must be located hydraulically upgradient from the waste management area. At least three (3) wells must be located hydraulically downgradient at the limit of the waste management area.

To establish background concentrations, wells are sampled quarterly for one (1) year. After background is established, monitoring may be reduced to semi-annual and annual monitoring with the Department's concurrence. Changes in water quality would serve as an indicator that ground water may be impacted by the disposal activity. Data is required by regulation to be submitted to SCDHEC by facilities, and SCDHEC conducts periodic monitoring (Ref. SW-846).

Analysis normally required for interim status hazardous waste land disposal facilities are:

# To Establish Background Conditions (quarterly for 1 year)

| Arsenic Barium Cadmium Chromium Fluoride Lead Mercury Nitrate Selenium | Silver Endrin Lindane Methoxychlor Toxaphene 2,4-D 2,4,5-TP Silvex Radium Gross Alpha Gross Beta | Chloride Iron Manganese Phenols Sodium Sulfate pH Specific Conductance Total Organic Carbon Total Organic Halogen |
|--|--|---|
| Selenium   | Gross Alpha<br>Gross Beta<br>Turbidity<br>Coliform Bacteria                                      | Total Organic Carbon Total Organic Halogen Water Level  |

# After Background Conditions are Established

| Semi-Annually  | <u>Annually</u>   |
|--|---|
| pH<br>Specific Conductance<br>Total Organic Carbon<br>Total Organic Halogen<br>Water Level | Chloride<br>Iron<br>Manganese<br>Phenols<br>Sodium<br>Sulfate |

If contamination is determined to exist, more comprehensive assessments and corrective actions may be required under the regulations.

#### XII. LABORATORY SUPPORT

#### A. <u>Laboratory Services</u>

The Analytical Services Division provides laboratory services to the following programs: Water Pollution Control, Drinking Water Protection, Ground-Water Protection, Recreational Waters, Shellfish, Solid and Hazardous Waste Management, District Services, Biological Monitoring, and Emergency Response Services. The analytical services offered include bacteriological, chemical, and physical analyses. The types of samples analyzed include water, wastewater, leachate, soil, sediment, chemical wastes, fish, and shellfish.

The organizational structure encompasses five sections and five regional laboratories. The Central Laboratory Sections include Sample Management, Metals Analysis, Automated Analysis, Organic Analysis, and Environmental Microbiology. The five regional laboratories are located in Aiken, North Charleston, Florence, Greenville, and Lancaster.

The Regional Laboratories initiate all stream and wastewater analysis and the Central Laboratories provide support analyses, i.e., metal, nutrient, toxic extraction procedures, and organic analyses. Drinking Water is essentially a Central Laboratory program with support from the Regional Laboratories.

The Division Director coordinates the internal quality assurance program.

#### B. Analytical Services Quality Assurance Program

A quality assurance program is essential to produce valid data and to provide a means to systematically demonstrate its validity. The quality assurance program encompasses every aspect of the laboratory analysis from container preparation through the actual data release from the Analytical Services Division Laboratory to the Environmental Quality Control (EQC) Programs.

The Analytical Services Division has developed two quality control manuals which detail the day-to-day operation of the quality assurance program: (1) Procedures and Quality Control Manual for Chemistry Laboratories--Analytical Services Division; and (2) Laboratory Procedures Manual for Environmental Microbiology--Analytical Services Division. The elements of quality control addressed in the manuals include organization and sample chain of custody; personnel training; quality control of laboratory services, equipment, reagents, solvents, and glassware; methodology; and analytical performance control.

The overall laboratory quality assurance program which includes the previously discussed elements requires a minimum of 15% of allocated resources. The frequency for analysis of replicates and spike recovery samples is noted in the manuals and is in compliance with U.S. EPA guidelines. EPA reference samples are also analyzed as noted in the manuals. In addition, the

Analytical Services Division participates in the annual EPA Water Supply and Water Pollution Performance Audit Sample Programs. The Environmental Microbiology Laboratories perform replicate analyses, positive test controls, media control tests, equipment control tests, etc., as required by EPA Laboratory Certification and Evaluation guidelines.

The laboratory analyses are conducted according to the List of Approved Test Procedures in the Federal Register, Volume 49, No. 209, October 26, 1984, and in the Federal Register, Volume 51, No. 125, June 30, 1986. The Analytical Services Division quality control manuals include a section on methodology designed to reduce variations in applied techniques among the six laboratories where methods permit analyst interpretation, and thus provide a more uniform approach which will increase the reproducibility of results reported from the laboratory system.

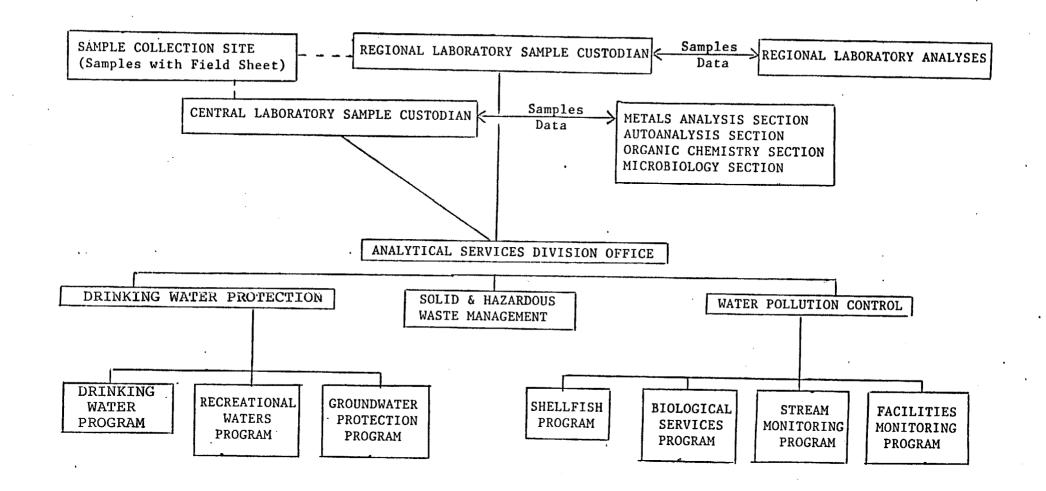
The proper containers must be selected for sampling as well as the proper preservation and an adequate volume collected. The reader should refer to the next section entitled "Sample Containers and Preservation."

A detailed discussion of sample chain of custody and the management of data flow is included in the manuals. The reader should refer to the flow chart, Table 10, entitled "Sample Chain of Custody and Data Flow."

#### C. Sample Containers and Preservation

Control of the quality of laboratory analyses begins with the sample collection. The validity of analytical results obtained depends upon a representative sample of the source from which it was collected. The concentration of each constituent in a sample at the time of collection must be maintained until all analyses have been completed. Constituent concentrations may be altered after collection through contamination of the container, reactions between sample components and the container walls, and through naturally occurring reactions within the sample itself. This section contains the methodology employed by the Laboratories to control those factors which can affect sample validity. The actual sample collection procedures are not included in this manual; the reader may wish to refer to the manual entitled <u>Standard Operating and Quality Control</u> <u>Procedures for Ambient Stream and Wastewater Facility Monitoring (SCDHEC)</u>.

Glass, polyethylene, and polypropylene bottles are used as sample containers. The sample container is cleaned and labeled for the parameter for which it is used. The containers used for the various parameters have been chosen for their chemical resistance to the chemical parameter of interest and the required preservatives. Random substitution of containers may not be made.



ANALYTICAL SERVICES DIVISION

SAMPLE CHAIN OF CUSTODY AND DATA FLOW

TABLE 9

Special cleaning procedures are employed for the various containers. Each parameter or parameter group involves different interfering compounds and contaminants which must be removed from the container walls. Containers required for Parameters analyzed by the Organic and Inorganic Chemistry Laboratories are maintained by those laboratories. Clean containers for organic and inorganic parameters are shipped to the Regional Laboratories by the Sample and Data Management Center in Columbia. Containers required for parameters analyzed by the Regional Laboratories are maintained by those laboratories and cleaned according to special procedures.

Based upon the available sample preservation research data and the desire to parallel United States Environmental Protection Agency laboratory procedures, the Analytical Services Laboratories add preservatives to all drinking water, ground water, stream water, and wastewater program samples collected for chemical analyses upon receiving them into the laboratory with the following exceptions:

- (1) If the samples cannot be transported to the laboratory before the end of the working day which is normally 5:00 p.m., the samples must be preserved in the field.
- (2) All water samples for cyanide, phenol, and sulfide analyses must be preserved at the site immediately after collection.

The district offices are responsible for requesting the preservatives in order to maintain an ample quantity. Each dispenser is labeled in bold letters to assist the collector to choose the proper preservative for the container; i.e., METALS, MERCURY, Because the concentration levels cannot be NUTRIENTS, TOC, etc. maintained at the level collected indefinitely, maximum holding times have been set for each parameter. Analyses must be completed during the time limits set for valid results. Required containers, preservatives, and holding times for each parameter and procedures used for preserving cyanide, phenol, and sulfide samples at the collection site are listed in the Procedures and Quality Control Manual for Chemistry Laboratories - Analytical Services Division, and Standard Operating and Quality Control Procedures for Ambient Water Quality and Wastewater Facility Monitoring - Stream and Facility Monitoring Section. The regional or central laboratory chemists are responsible for providing containers, preservation materials, and preservation technique instructions to sample collectors for samples for cyanide, phenol, and sulfide analyses.

#### D. <u>Laboratory Evaluation Program</u>

The laboratory certification program is authorized by Regulation 61-81 entitled "State Environmental Laboratory Certification Program" which became effective January 1, 1981. The regulation applies to all laboratories which generate data for compliance with state environmental regulations.

The two main components of the certification program are (1) an on-site evaluation of the laboratory in regard to facilities, equipment, methodology, records keeping, and quality control and

(2) the analysis of performance audit samples. A detailed report of the evaluation revealing all deficiencies found is written and returned to the laboratory with a letter stating that all deficiencies are to be corrected and certification obtained within 90 days. If certification is not obtained at the end of 90 days, Environmental Quality Control will not accept data from that laboratory. Audit samples must be analyzed satisfactorily prior to certification. These samples must be analyzed annually for each parameter for which certification is desired. The unsatisfactory analysis of two consecutive audit samples for any parameter will result in decertification.

Evaluation of wastewater laboratories are now being scheduled based on date of last inspection and alphabetically for those which have not received an initial evaluation. These evaluations will include drinking water and wastewater laboratories with limited work in the disciplines of solid and hazardous waste, groundwater monitoring, air, and biological assessments. It should also be noted that some laboratories will require two or more people to perform the evaluation and many laboratories will require follow-up Complete evaluations are planned at three year evaluations. intervals. The laboratory certification staff assist performance audit evaluations. Technical review of laboratory design and equipment specifications is conducted for the Construction Grants Program.

#### XIII. DATA HANDLING

Data for samples that are analyzed in the District Laboratories are reported on the appropriate data sheets and released by the sample custodian. These data sheets are sent to the Analytical Services Division in Columbia each Friday where they, along with data sheets generated in the Central Laboratory, are sent to the appropriate program areas. All stream and facility data is distributed by Section managers to the appropriate section member.

- A. Ambient Stream Monitoring Most ambient stream and sediment samples are collected by District personnel. The data is sent to the Water Quality Monitoring Section manager through the Analytical Services Division. The data are reviewed by the Water Quality Monitoring Section and are sent to Data Systems Management for keypunching. The keypunched data are edited and then stored in EPA's computerized data base (STORET) of water quality data. Data sheets are kept on file in the Water Quality Monitoring Section.
- B. <u>Special Study Data</u> Generally special studies are initiated in the Central Office through requests from other Divisions or Districts. Samples are usually collected with the cooperation of the District within which the study area lies. Samples and data are handled as for ambient monitoring.
- C. <u>Compliance Sampling</u> Compliance sampling data are sent to the Facilities Compliance Section manager through the Analytical Services Division. After review by the Facilities Compliance Section, the data is sent to Data Systems Management for key-punching. Keypunched data is edited and a compliance monitoring report is generated. A determination of compliance is made by the Facilities Compliance Section. If the facility is not in compliance, a letter of noncompliance is sent to the owner. Copies of the data are sent to the District Lab and the Central files. Copies of the report are sent to the permittee, District, Central files, and EPA (majors). Inspections are tracked by EPA's computerized Permit Compliance System (PCS).
- D. <u>NPDES Compliance and Self-Monitoring</u>- NPDES compliance reports and self-monitoring data are monitored for accuracy and a determination of compliance made by the Enforcement Section. If the facility shows a trend of noncompliance, a Notice of Violation is sent to the owner.
- E. <u>Federal Operation and Maintenance Inspections</u> The inspection reports are completed by the Facility Evaluator and sent to the Facilities Compliance Section. After review and logging, copies are sent to the facility owner, the District, EPA Region IV, and the Facilities Compliance Section files. A letter is also sent to the owner with a response requested if problems are noted. Inspections are tracked by EPA's computerized PCS.
- F. <u>State Operation and Maintenance Inspections</u> Routine State 0 & M inspections are completed by the Facility evaluator and reviewed by the District Director. Copies of the report are distributed to the facility owner, the facility operator, and the district files, with

the original being sent to the Facilities Compliance Section. The original is later placed in the Central files. Information from the inspection is updated in the computerized Carolina File. Inspections are tracked by the EPA's computerized PCS.

- G. <u>Fish Kill</u> Samples are sent to the Analytical Services Division for analysis. The data is sent to the Emergency Response Section and collated with the fish kill report. A copy of the fish kill investigation report and data is sent to the owner (if the kill occurred in a private pond), the person who reported the kill, the District Director of the area where the kill occurred, South Carolina Wildlife and Marine Resources if they helped with investigation or expressed interest in the kill, the Enforcement Section of DHEC, and DHEC's central files. A permanent numerical record is kept by the Emergency Response Section.
- H. Oil and Hazardous Materials Normally, samples are not collected on spill investigations. However, whenever the spiller cannot readily be identified, the samples are collected and they follow the procedure as alluded to in the "fish kill" procedure.

For hazardous materials investigations, samples are usually collected upstream and downstream of the spill site, along with samples of the spilled material. These samples are then returned to the Sample and Data Control Center of Analytical Services Division and logged in for analysis. Upon completion, data is entered on the appropriate data sheet and forwarded to the Emergency Response Section to be collated with the spill report. Copies of the hazardous materials report and data are sent to the spiller if requested, the Environmental Protection Agency if appropriate, the Central file of the Department of Health and Environmental Control, and to the appropriate Enforcement Section of the South Carolina Department of Health and Environmental Control.

A permanent numerical record is kept in the Central files area.

I. <u>Biological Monitoring</u>- After samples are collected, data sheets are kept on file in the Water Quality Monitoring Section until sample analysis is completed. Upon completion of analysis, any physical or chemical data are placed in STORET. Data sheets describing biological data are kept on file in the Water Quality Monitoring Section.

XIV. APPENDICES

#### APPENDIX A

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

PRIMARY AND SECONDARY STREAM STATION DESCRIPTIONS LISTED BY LABORATORY DISTRICT

#### APPENDIX A

#### SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

#### PRIMARY AND SECONDARY STREAM STATION DESCRIPTIONS LISTED BY REGION

### STREAM STATIONS FOR AIKEN - PRIMARY LOWER SAVANNAH DISTRICT

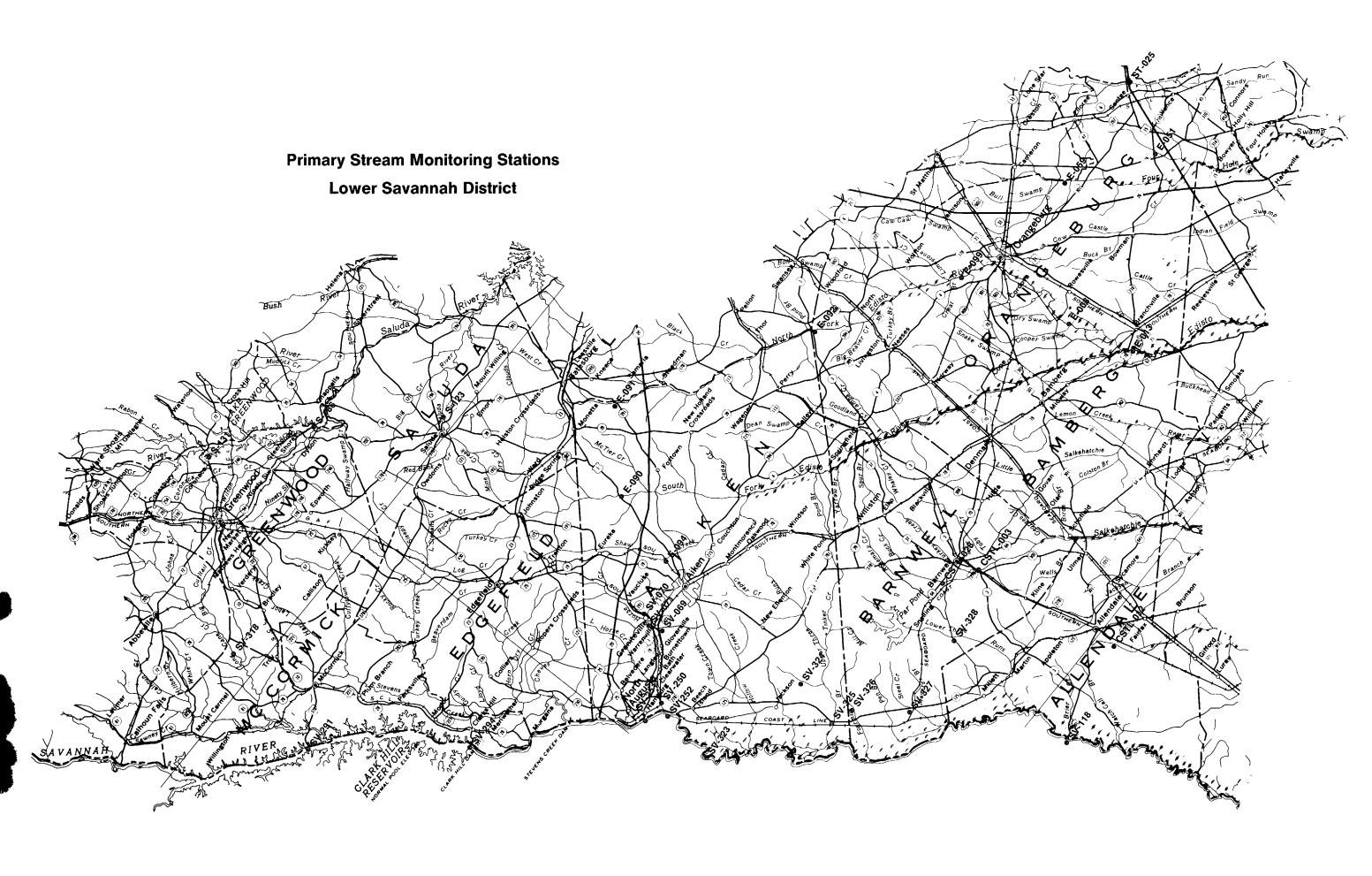
| Station              | Description   | Criteria      | Basin |
|----------------------|---|---------------|-------|
| CCTL 002             | CALVEHATORIE DVD AT CC 270 2 E MI   |               |       |
| CSTL-003             | SALKEHATCHIE RVR AT SC 278 2.5 MI<br>S BARNWELL   | 6             | 0924  |
| CSTL-012             | COOSAWHATCHIE RVR AT S-03-22 1.5 MI SW ALLENDALE  | 1             | 0924  |
| CSTL-012<br>CSTL-028 | COUSAWHATCHIE RVR AT SC 64 2 MT U OF DADNUELL   | 1,5           | 0932  |
| E-008                | SALKEHATCHIE RVR AT SC 64 2 MI W OF BARNWELL N FORK EDISTO RVR AT S-38-39 WSW OF ROWESVILLE   |               |       |
| E-013                | EDISTO RVR AT US 78 W OF BRANCHVILLE  | 2,16<br>1,2,4 | 0914  |
| E-013<br>E-051       |   | 1,2,4         | 0900  |
| E-031                | NW OF HOLLY HILL  | 7,14          | 0912  |
| E-059                |   | 1,7           | 0912  |
| E-090                | S FORK FRISTO DVD AT HS 1 12 MI NE AIVEN  | 1,/           | 0918  |
| E-091                | 4 HOLE SWP AT S-38-50 5.2 MI SE OF CAMERON S FORK EDISTO RVR AT US 1 12 MI NE AIKEN N FORK EDISTO RVR AT SC 391 5.5 MI S BATESBURG N FORK EDISTO RVR AT SC 3 5.5 MI NW NORTH SHAW CREEK AT S-02-26 4.2 MI NE AIKEN N FORK EDISTO RVR AT S-38-74 NW ORANGERURG | 1             | 0916  |
| E-092                | N FORK EDISTO RVR AT SC 331 3.3 MI S DATESDORG  | 1 2           | 0914  |
| E-094                | CUAN COEEN AT CLOS SE A S MT ME ATMEN   | 12,15         |       |
| E-099                | SHAW CREEK AT S-02-26 4.2 MI NE AIKEN<br>N FORK EDISTO RVR AT S-38-74 NW ORANGEBURG   | 7,9           |       |
| S-123                | I ITTLE CALLIDA DVD AT C.41.30 5 2 MI NE CALLIDA  | 7,10          | 0840  |
| S-123                | LITTLE SALUDA RVR AT S-41-39 5.2 MI NE SALUDA<br>LK GREENWOOD AT US 221 7.6 MI NNW 96   | · 8,15        | 0844  |
| S-186                |   | 1             | 0842  |
| S-295                | CALUDA DIVED AT C.C. DOUTE 30   | 10            | 0842  |
| ST-025               | IK MARTON AT MID RRDG ON 1-95 AT SANTEF   | 8             | 0804  |
| SV-069               | SAND RVR AT OLD US 1 1 2 MI SE WARRENVILLE  | 10            | 1306  |
| SV-071               | HORSE CK AT S-02-104 O 6 MI SW GRANITEVILLE   | 6             | 1306  |
| SV-118               | SAVANNAH RVR AT US 301 12 5 MT SW ALLENDALE   | 2,3,16        | 1304  |
| SV-250               | LK MARION AT MID BRDG ON I-95 AT SANTEE SAND RVR AT OLD US 1 1.2 MI SE WARRENVILLE HORSE CK AT S-02-104 0.6 MI SW GRANITEVILLE SAVANNAH RVR AT US 301 12.5 MI SW ALLENDALE HORSE CK AT SC 125 1.5 MI SW CLEARWATER  | 6             | 1306  |
| SV-251               | SAVANNAH RVR AT US 1 1.5 MI SW N. AUGUSTA   | 6,12          | 1306  |
| SV-252               | SAVANNAH RVR AT SC 28 1.6 MI NNW OF BEACH ISLAND  | 1,3           | 1304  |
| SV-291               | CLARKS HILL RESERVOIR AT US 378 7 MI SW MCCORMICK   |               | 1308  |
| SV-294               | CLARKS HILL RESERVOIR AT DAM AT US 221 1.5 MI   | 0,10          | 1000  |
|                      | SW CLARKS HILL  | 1             | 1306  |
| SV-318               | LONG CANE CK AT S-33-117 7.0 MI NW MCCORMICK  | $\bar{1}0,17$ |       |
| SV-323               | SAVANNAH RVR AT LOCK AND DAM  | 1,3,16        | 1304  |
| SV-324               | TIMS BR AT SRP ROAD C   | 17            | 1304  |
| SV-325               | UPPER THREE RUNS CK AT SRP ROAD A   | 17            | 1304  |
| SV-326               | FOUR MILE CK AT SRP ROAD A-7  | 17            | 1304  |

| <pre>1 = Influent to segment (sub-basin)</pre> | 9 = Above major municipal area           |
|--|--|
| 2 = Effluent to segment                        | 10 = Below major municipal area          |
|  |  |
| <pre>3 = Major streams at state lines</pre>    | <pre>11 = Mouth of major tributary</pre> |
| 4 = Confluence of major streams                | 12 = Major water use area                |
|  |  |
| 5 = Above a major industrial area              | 13 = Above major land use area           |
| 6 = Below a major industrial area              | 14 = Below major land use area           |
|  |  |
| <pre>7 = Water Quality limited area</pre>      | 15 = Above a water intake                |
| O Madau Jaha                                   | 16 Danie Haber Manthaut Danie            |
| 8 = Major lake                                 | 16 = Basic Water Monitoring Program      |
|  | 17 = Other                               |
|  | 1/ = ULNEr                               |

# STREAM STATIONS FOR AIKEN - PRIMARY Lower Savannah District (continued)

| <u>Station</u> | Description                                       | <u>Criteria</u> | <u>Basin</u> |
|----------------|---|-----------------|--------------|
| SV-327         | STEEL CK AT SRP ROAD A                            | 17              | 1304         |
| SV-328         | LOWER THREE RUNS CK AT S-06-20 7.5 MI SW BARNWELL | 17              | 1304         |
| SV-329         | HORSE CREEK AT ASCAUGA LAKE ROAD (S-02-33) IN     |                 |              |
|                | GRANITEVILLE                                      | 5               | 1306         |
| SV-330         | STEVENS CREEK AT S-33-21                          | 10              | 1306         |

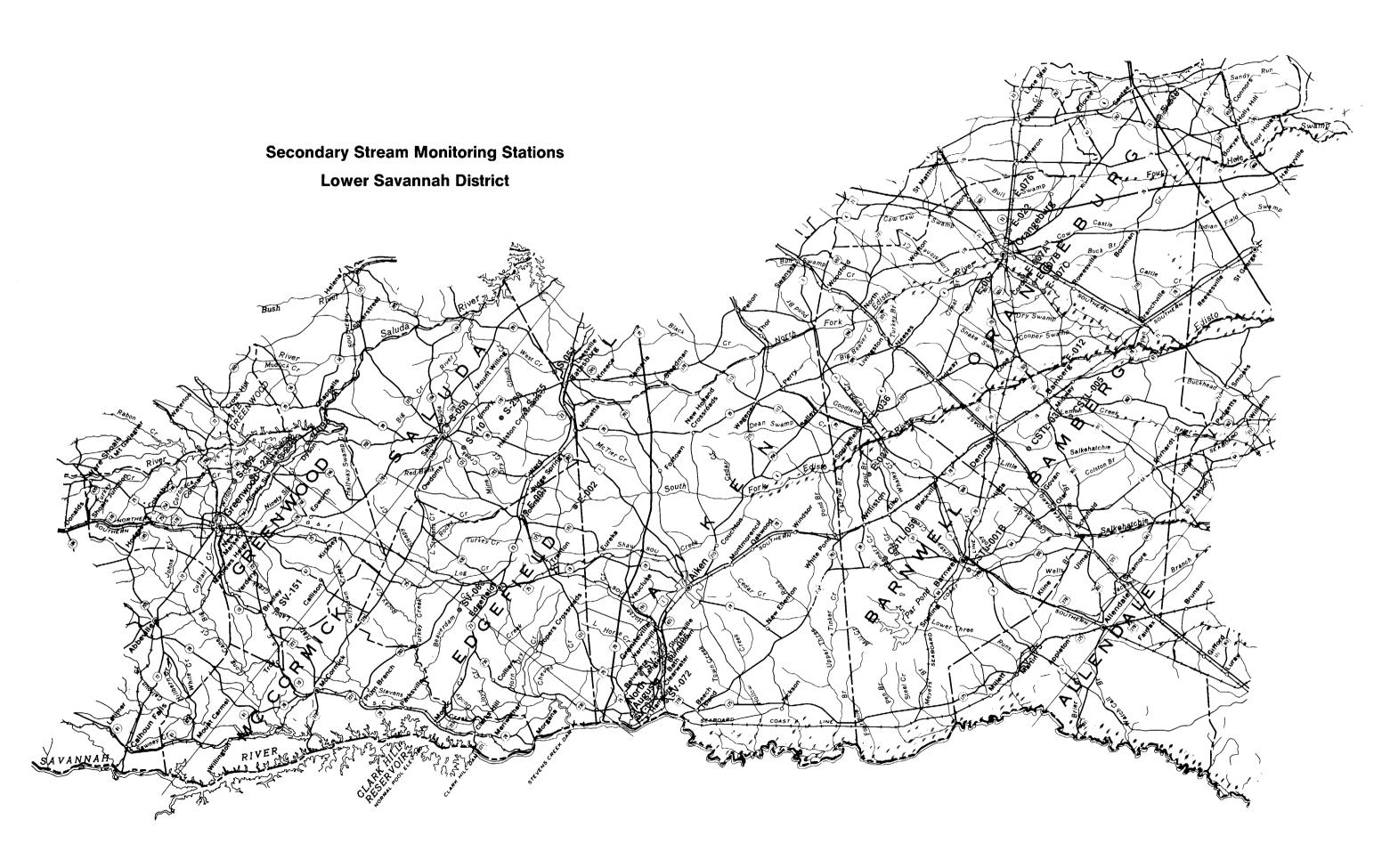
| 9 = Above major municipal area            |
|---|
| 10 = Below major municipal area           |
| <pre>11 = Mouth of major tributary</pre>  |
| 12 = Major water use area                 |
| <pre>13 = Above major land use area</pre> |
| <pre>14 = Below major land use area</pre> |
| 15 = Above a water intake                 |
| 16 = Basic Water Monitoring Program       |
| 17 = Other                                |
|   |



# STREAM STATIONS FOR AIKEN - SECONDARY LOWER SAVANNAH DISTRICT

| <u>Station</u> | Description  | Criteria | Basin |
|----------------|--|----------|-------|
| CSTL-001B      | TURKEY CK 1 MI BL MILLIKEN BARNWELL OUTFALL          |          |       |
|                | AT CLINTON ST.                                       | 6        | 0924  |
| CSTL-005       | LEMON CK ON S-05-77                                  | 6<br>7   | 0924  |
| CSTL-037       | GRAPEVINE CK ON S-05-32 SW OF BAMBERG                | 10       | 0924  |
| E-001          | FIRST BR AT BRDG ADJACENT TO WTR PLT AT JOHNSON      |          |       |
|                | AT S-19-41   | 9        | 0918  |
| E-002          | S FORK EDISTO RVR AT S-19-57 BL JOHNSTON SWR OUTFALL | 10       | 0918  |
| E-007          | N FORK EDISTO RVR AT US 601 AT ORANGEBURG            | 5        | 0914  |
| E-007A         | N FORK EDISTO RVR AT POWER LINE CROSSING             |          |       |
|                | 2 MI BL E-007  | 6        | 0914  |
| E-007B         | N FORK EDISTO RVR 4 MI BL E-007 AT A CABIN           | 6        | 0914  |
| E-007C         | N FORK EDISTO RVR AT POLICEMANS CAMP 6 MI BL E-007   | 10       | 0914  |
| E-012          | SOUTH EDISTO RIVER AT SC 39 BRIDGE                   | 2,11     | 0918  |
| E-019          | HOME BR AT S-38-68 1.2 MI SW OF HOLLY HILL           | 7        | 0912  |
| E-022          | GRAMLING CK AT CLVT ON SC 33 2 MI E OF ORANGEBURG    | 10       | 0912  |
| E-036          | GOOD LAND CK AT SC 4 2.1 MI E OF SPRINGFIELD         | 10       | 0918  |
| E-076          | TRIB TO GRAMLING CK AT SC 33-BL UTICA TOOL CO        | 6        | 0912  |
| S-050          | LITTLE SALUDA RVR AT US 378 E SALUDA                 | 6,10     | 0840  |
| S-092          | CORONACA CK AT S-24-100 4 MI NW OF 96                | 7        | 0842  |
| S-093          | WILSON CK AT SC 702 5.2 MI ESE OF 96                 | 7        | 0842  |
| S-233          | WILSON CK AT S-24-101                                | 10       | 0842  |
| S-235          | WILSON CK AT S-24-124                                | 7        | 0842  |
| S-255          | CLOUDS CK AT S-41-26 4 MI NW BATESBURG               | 7        | 0840  |
| SV-068         | BEAVERDAM CK AT S-19-35 3.8 MI NW OF EDGEFIELD       | 10       | 1306  |
| SV-072         | HORSE CK AT S-02-145                                 | 4        | 1306  |
| SV-073         | LITTLE HORSE CK AT SC 421 BL EFF OF CLEARWTR FIN     | 6<br>5   | 1306  |
| SV-096         | EFF FROM HORSE CK POND AT DAM ON S-02-254            |          | 1306  |
| SV-151         | HARD LABOR CREEK AT S-24-164 BRIDGE                  | 10       | 1306  |
| SV-175         | LOWER 3 RUNS CK AT SC 125 11 MI NW OF ALLENDALE      | 6        | 1304  |

| <pre>1 = Influent to segment (sub-basin)</pre> | 9 = Above major municipal area            |
|--|---|
| 2 = Effluent to segment                        | 10 = Below major municipal area           |
| 3 = Major streams at state lines               | <pre>11 = Mouth of major tributary</pre>  |
| 4 = Confluence of major streams                | 12 = Major water use area                 |
| 5 = Above a major industrial area              | <pre>13 = Above major land use area</pre> |
| 6 = Below a major industrial area              | <pre>14 = Below major land use area</pre> |
| 7 = Water Quality limited area                 | 15 = Above a water intake                 |
| 8 = Major lake                                 | 16 = Basic Water Monitoring Program       |
|  | 17 = Other                                |



# STATIONS FOR CHARLESTON - PRIMARY TRIDENT DISTRICT

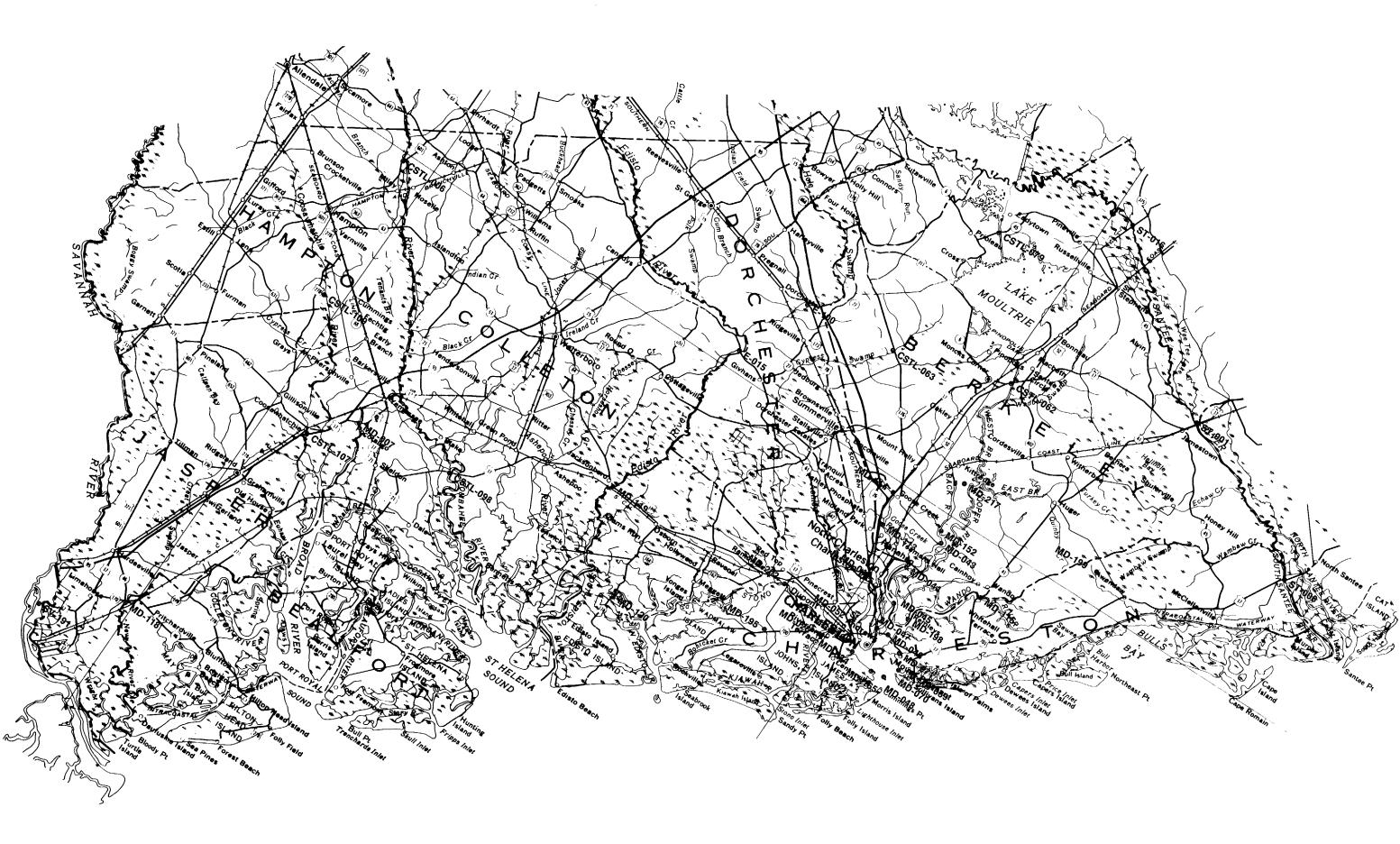
| <u>Station</u> | Description   | Criteria | Basin |
|----------------|---|----------|-------|
| CSTL-006       | SALKEHATCHIE RVR AT 601 9 MI NE HAMPTON   | 1,2      | 0922  |
| CSTL-062       | TAIL RACE CANAL AT US 52 & 17A BELOW LAKE MOULTRIE  |          | 0820  |
| CSTL-063       | WASSAMASSAW SWP AT US 176   | 1<br>1   | 0818  |
| CSTL-079       | DIVERSION CANAL AT SC 45 12.6 MI W OF ST STEPHENS   |          | 0822  |
| CSTL-098       | COMPANIE DUD AT HE 17 10 MT ECE VEMACCEE  | 1 2 16   | 0920  |
| CSTL-107       | COOSAWHATCHIE RVR AT US 17 AT COOSAWHATCHIE   | 2        | 0930  |
| CSTL-109       | COOSAWHATCHIE RVR AT S-25-27 2.5 MI SW CUMMINGS   | 2,16     | 0932  |
| E-015          | EDISTO RVR AT SC 61 AT GIVHANS FERRY ST PK  | 1,16     | 0906  |
| E-100          | 4 HOLE SWP AT US 78 E OF DORCHESTER   | 2,16     | 0912  |
| MD-007         | POCOTALIGO RVR AT US 17 AT POCOTALIGO   | 1        | 0926  |
| MD-020         | COMBANEE RVR AT US 17 10 MT ESE TEMASSEE COOSAWHATCHIE RVR AT US 17 AT COOSAWHATCHIE COOSAWHATCHIE RVR AT S-25-27 2.5 MI SW CUMMINGS EDISTO RVR AT SC 61 AT GIVHANS FERRY ST PK 4 HOLE SWP AT US 78 E OF DORCHESTER POCOTALIGO RVR AT US 17 AT POCOTALIGO MOUTH OF WAPPOO CK BTWN CHANNEL MARKERS 3 & 4   | 7        | 0814  |
| MD-026         | STUNG RAK AT 2C 100   | 2        | 0014  |
| MD-034         | RT BK OF ASHLEY RVR BTWN MOUTH OF WAPPOO CK & DILLS C   |          | 0814  |
| MD-043         | COOPER RVR AT CHANNEL MARKER 72 NEAR USN AMMO DEPOT   | 1        | 0810  |
| MD-044         | COOPER RVR BL MOUTH OF GOOSE CK AT CHANNEL BUOY 60  | 6<br>2   | 0810  |
| MD-045         | COOPER RVR AB MOUTH OF SHIPYD CK AT CHANNEL BUOY 49   | 2        | 0810  |
| MD-046         | COOPER RVR UNDER GRACE MEMORIAL BRDG  | 7        | 0814  |
| MD-047         | TOWN CK (W SIDE OF DRUM ISL) UNDER GRACE MEMORIAL BRD   | G 7      | 0814  |
| MD-048         | COOPER RVR UNDER GRACE MEMORIAL BRDG<br>TOWN CK (W SIDE OF DRUM ISL) UNDER GRACE MEMORIAL BRD<br>S CHANNEL CHAS HBR OFF FT JOHNSON QUAR STA BELL  |          |       |
|                | BUOY 28   | 7,16     |       |
| MD-049         |   | 6,10     | 0818  |
| MD-052         | ASHLEY RVR AT SALRR BRDG<br>INTRACOASTAL WATERWAY AT SC 703 E MT PLEASANT   | 2        | 0818  |
| MD-069         | INTRACOASTAL WATERWAY AT SC 703 E MT PLEASANT   | 17       | 0806  |
| MD-070         | ABANDONED BRDG OVER THE COVE END OF PITT ST   |          |       |
|                | MT PLEASANT   | 7        | 0814  |
| MD-071         | SHEM CK AT BRDG ON US 17  | 7        | 0814  |
| MD-113         | GOOSE CK RES AT CHTN WTR INTAKE   | 12       | 0810  |
| MD-114         | GOOSE CK AT S-10-52 N CHTN  | 10       | 0810  |
| MD-115         | WANDO RVR AT SC 41  | 1        | 0808  |
| MD-118         | NEW RVR AT SC 170 9 MI W OF BLUFFTON  | 2        | 0928  |
| MD-119         | EDISTO RVR AT US 17 12.5 MI NW RAVENEL  | 1,2      | 0906  |
| MD-120         | DAWHOO RVR AT SC 174 9 MI N OF EDISTO BCH SP  | 1<br>2   | 0902  |
| MD-152         | ABANDONED BRDG OVER THE COVE END OF PITT ST MT PLEASANT SHEM CK AT BRDG ON US 17 GOOSE CK RES AT CHTN WTR INTAKE GOOSE CK AT S-10-52 N CHTN WANDO RVR AT SC 41 NEW RVR AT SC 170 9 MI W OF BLUFFTON EDISTO RVR AT US 17 12.5 MI NW RAVENEL DAWHOO RVR AT SC 174 9 MI N OF EDISTO BCH SP COOPER RVR AT S-08-503 6.2 MI ESE OF GOOSE CK CHAS HBR AT FT JOHNSON PIER AT MARINE SCI LAB | 2        | 0820  |
| MD-165         | CHAS HBR AT FT JOHNSON PIER AT MARINE SCI LAB   | 7        | 0814  |
| MD-195         | BUTICKETT CK AT SC 700 I MI SW OF CEDAR SPRINGS   | 9,10     | 0902  |
| MD-198         | WANDO RVR BTWN RATHALL & HOBCAW CKS   | 2        | 0808  |

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|--|--|
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| 3 = Major streams at state lines               | <pre>11 = Mouth of major tributary</pre>       |
| 4 = Confluence of major streams                | 12 = Major water use area                      |
| 5 = Above a major industrial area              | <pre>13 = Above major land use area</pre>      |
| 6 = Below a major industrial area              | <pre>14 = Below major land use area</pre>      |
| 7 = Water Quality limited area                 | 15 = Above a water intake                      |
| 8 = Major lake                                 | <pre>16 = Basic Water Monitoring Program</pre> |
|  | 17 = 0ther                                     |

# STATIONS FOR CHARLESTON - PRIMARY TRIDENT DISTRICT

| Station | Description  | <u>Criteria</u> | Basin |
|---------|--|-----------------|-------|
| MD-202  | STONO RVR AT S-10-20 2 MI UPSTRM OF CLEMSON EXP STA                  | 1               | 0814  |
| MD-217  | DURHAM CK AT S-08-9 BRIDGE   | 12,15           | 0820  |
| MD-240  | FOSTER CREEK AT CHARLESTON CPW WATER INTAKE MECHAW CK AT SC ROUTE 45 | 15              | 0820  |
| MD-241  |  | 17              | 0802  |
| ST-001  | SANTEE RVR AT SC 41/US 17A NE OF JAMESTOWN                           | 5,16            | 0802  |
| ST-006  | S SANTEE RVR AT US 17  | 2               | 0802  |
| ST-016  | SANTEE RVR AT US 52 6.5 MI NNW OF ST STEPHENS                        | 1               | 0802  |
| SV-191  | SAVANNAH RVR AT US 17 8.9 MI SSW OF HARDEEVILLE                      | 2,3             | 1302  |

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|--|--|
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| 3 = Major streams at state lines               | <pre>11 = Mouth of major tributary</pre>       |
| 4 = Confluence of major streams                | 12 = Major water use area                      |
| 5 = Above a major industrial area              | <pre>13 = Above major land use area</pre>      |
| 6 = Below a major industrial area              | <pre>14 = Below major land use area</pre>      |
| 7 = Water Quality limited area                 | 15 = Above a water intake                      |
| 8 = Major lake                                 | <pre>16 = Basic Water Monitoring Program</pre> |
|  | 17 = Other                                     |



Primary Stream Monitoring Stations

Trident District

## STREAM STATIONS FOR CHARLESTON - SECONDARY TRIDENT DISTRICT

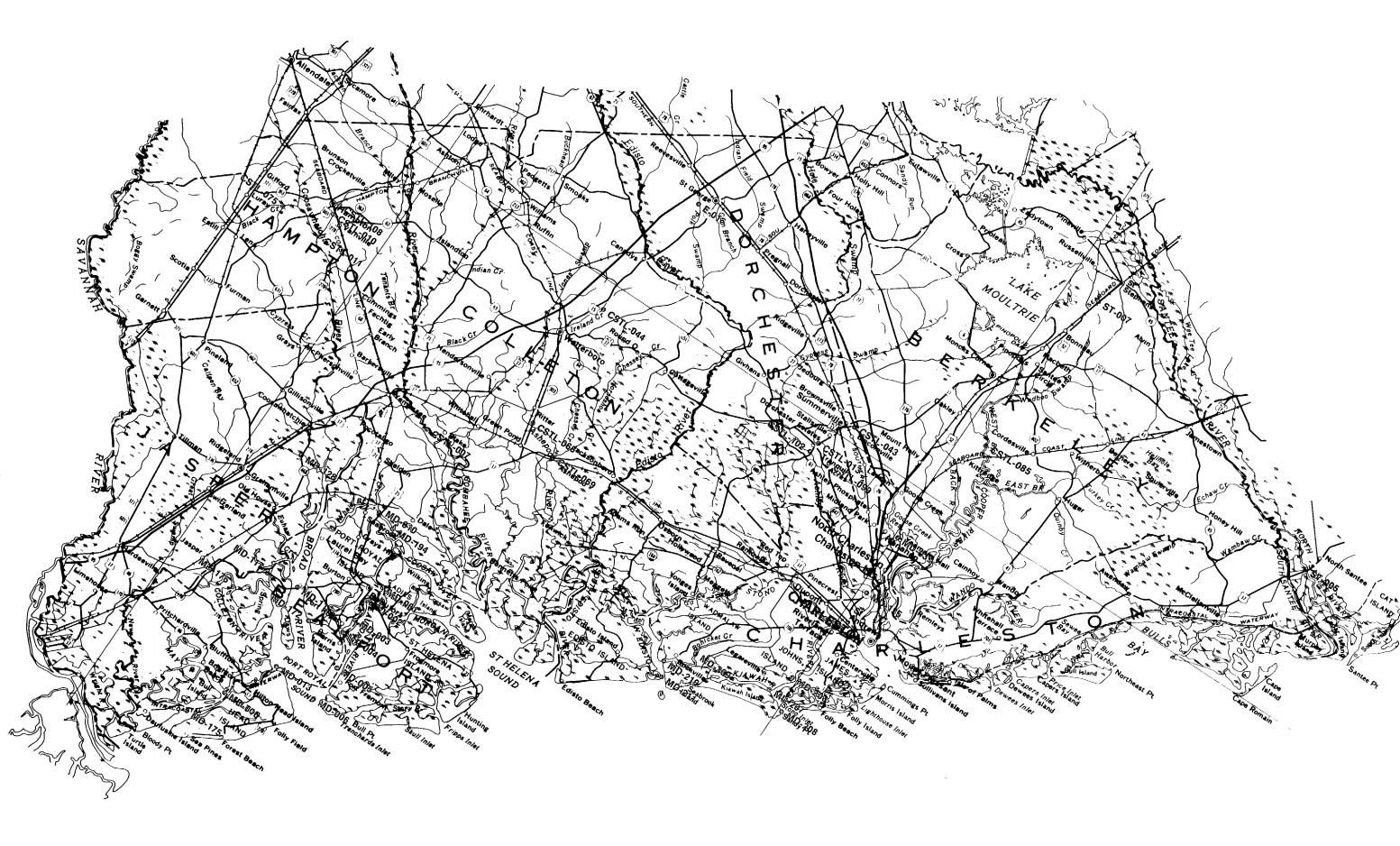
| <u>Station</u>   | Description   | Criteria      | Basin |
|------------------|---|---------------|-------|
| CSTL-007         | COMBAHEE SWP BL YEMASSEE SEWAGE OUTFALL   | 10            | 0922  |
| CSTL-010         | SANDERS BR AT SC 278  | 9             | 0932  |
| CSTL-011         | SANDERS BR AT S-25-50   | 10            | 0932  |
| CSTL-013         | SAWMILL BR AT SC 165  | 9,10          | 0818  |
| CSTL-043         | SAWMILL BR AT SC 78 E OF SUMMERVILLE  | 9,10          | 0818  |
| CSTL-044         | IRELAND CK AT S-29-116 5 1/2 MI N OF WALTERBORO   | 9             | 0906  |
| CSTL-068         | SANDERS BR AT SC 278  SANDERS BR AT S-25-50  SAWMILL BR AT SC 165  SAWMILL BR AT SC 78 E OF SUMMERVILLE  IRELAND CK AT S-29-116 5 1/2 MI N OF WALTERBORO  ASHEPOO RVR AT SC 303 10 MI SSW OF WALTERBORO  ASHEPOO RVR AT US 17 3.4 MI ESE OF GREEN POND  BLACK CK AT CO RD 41 5 MI SW OF HAMPTON  PLED IN COOPER RVR AT END OF RICE MILL RD IN | 17            | 0906  |
| CSTL-069         | ASHEPOO RVR AT US 17 3.4 MI ESE OF GREEN POND   | <b>4</b><br>7 | 0906  |
| CSTL-075         | BLACK CK AT CO RD 41 5 MI SW OF HAMPTON   | 7             | 0932  |
| CSTL-085         | TIEN THE COOLER WAN AT END OF KICK MILE NO IN   |               |       |
|                  | PIMLICO   | 10            | 0820  |
| CSTL-099         | EAGLE CK AT SC 642 5 MI SSE OF SUMMERVILLE  | 10            | 0818  |
| CSTL-102         | ASHLEY RVR AT SC 165 4.8 MI SSW OF SUMMERVILLE  | 6,10          | 0818  |
| CSTL-108         | SANDERS BRANCH AT SC RD 363   | 6             | 0932  |
| E-014            | EDISTO RVR AT US 15 S OF ST GEORGE  | 10            | 0908  |
| E-016            | POLK SWP AT UNIMP RD S-18-180 2 MI S OF ST GEORGE   | 10            | 0908  |
| MD-001           | BEAUFORT RVR AB BEAUFORT AT CHANNEL MARKER 231  | 6             | 0920  |
| MD-002           | BEAUFORT RVR AT DRAWBRDG ON US 21   | 6,10          | 0926  |
| MD-003           | BEAUFORT RIR BL BEAUFORT AT CHANNEL MARKER 244  | 6,10          | 0926  |
| MD-004           | BEAUFORT RVR AT JCT WITH BATTERY CK NR MARKER 42  | 6,10          | 0926  |
| MD-005           | BEAUFORT RVR BL OUTFALL OF PARRIS ISL MB AT   |               | 2006  |
| ND OOG           | BUOY 29   | 17            | 0926  |
| MD-006           | PORT ROYAL BTWN BUOY 25 & 24 W OF BAY PT ISLAND   | 2<br>5        | 0926  |
| MD-010           | WHALE BR AT US 21   | 5             | 0920  |
| MD-013           | MOUTH OF SKULL CK BTWN CHANNEL MARKERS 3 & 4  | 17            | 0000  |
| MD 016           | NEAR REDBO  | 17            | 0926  |
| MD-016           | MOUTH OF MAY RVR 1.0 MI W OF CHANNEL MARKER 29  | 4             | 0926  |
| MD-025<br>MD-039 | ELLIOT CUT AT EDGE WTR DR (S-10-26 OFF HW 17) GOOSE CK AT S-08-136 BRIDGE   | 11            | 0814  |
| MD-039<br>MD-116 | BROAD RVR AT SC 170 7.5 MI SW OF BEAUFORT   | 10            | 0810  |
| MD-110<br>MD-117 | CHECHESSEE RVR AT SC 170 7.5 MI SW OF BEAUFORT  | 17            | 0926  |
|                  |   | 17            | 0926  |
| MD-128           | BEES CK AT SC 462 5.9 MI NE OF RIDGELAND  | 17            | 0926  |
| MD-135<br>MD-172 | ASHLEY RVR AT SC 7 (N BRDG) BROAD RVR AT MOUTH OF ARCHER CK ON SW SIDE OF USMC  | 17<br>17      | 0818  |
| MD-172<br>MD-175 |   |               | 0926  |
| כ / 1 - טויו     | CALIBOGUE SD AT MOUTH OF COOPER RVR NR RED BUOY 32  | 3,4           | 0926  |

| <pre>1 = Influent to segment (sub-basin)</pre> | 9 = Above major municipal area           |
|--|--|
| 2 = Effluent to segment                        | 10 = Below major municipal area          |
| 3 = Major streams at state lines               | <pre>11 = Mouth of major tributary</pre> |
| 4 = Confluence of major streams                | 12 = Major water use area                |
| 5 = Above a major industrial area              | 13 = Above major land use area           |
| 6 = Below a major industrial area              | 14 = Below major land use area           |
| 7 = Water Quality limited area                 | 15 = Above a water intake                |
| 8 = Major lake                                 | 16 = Basic Water Monitoring Program      |
| •  | 17 = Other                               |

## STREAM STATIONS FOR CHARLESTON - SECONDARY TRIDENT DISTRICT

| <u>Station</u> | Description   | Criteria | <u>Basin</u> |
|----------------|---|----------|--------------|
| MD-176         | COLLETON RVR AT COLLETON NECK-AT JCT WITH CHECHESSEE RV | 17       | 0926         |
| MD-194         | WHALE BR AT JCT WITH CAMPBELL'S CK-3/4 MI W OF MD-010   | 6        | 0920         |
| MD-206         | STONO RIVER AT ABBAPOOLA CREEK                          | 12,14    | 0814         |
| MD-207         | KIAWAH RIVER MOUTH AT STONO RIVER                       | 12,14    | 0814         |
| MD-208         | STONO RIVER MOUTH AT BUOY 10 OFF SANDY PT               | 12,14    | 0814         |
| MD-209         | BOHICKET CK AT FICKLING CK                              | 12,14    | 0902         |
| MD-210         | BOHICKET CK MOUTH AT N EDISTO RVR                       | 12,14    | 0902         |
| MD-211         | N EDISTO RVR MOUTH BTWN KIAWAH ISLAND & BOTANY          | ,,-      |              |
|                | BAY ISL   | 12,14    | 0902         |
| MD-242         | ASHLEY RIVER, BETWEEN LEEDS AVENUE BOAT RAMP            |          |              |
|                | AND MOUTH OF CHURCH CK.                                 | 10       | 0818         |
| ST-005         | N SANTEE RVR AT US 17                                   | 2        | 0802         |
| ST-007         | WALKER SW AT US 52 2.5 MI S ST STEPHENS                 | 17       | 0820         |

| <pre>1 = Influent to segment (sub-basin)</pre> | 9 = Above major municipal area                 |
|--|--|
| 2 = Effluent to segment                        | <pre>10 = Below major municipal area</pre>     |
| <pre>3 = Major streams at state lines</pre>    | <pre>11 = Mouth of major tributary</pre>       |
| 4 = Confluence of major streams                | 12 = Major water use area                      |
| 5 = Above a major industrial area              | <pre>13 = Above major land use area</pre>      |
| 6 = Below a major industrial area              | <pre>14 = Below major land use area</pre>      |
| 7 = Water Quality limited area                 | 15 = Above a water intake                      |
| 8 = Major lake                                 | <pre>16 = Basic Water Monitoring Program</pre> |
|  | 17 = Other                                     |



Secondary Stream Monitoring Stations
Trident District

## STREAM STATIONS FOR COLUMBIA - PRIMARY CENTRALS MIDLANDS DISTRICT

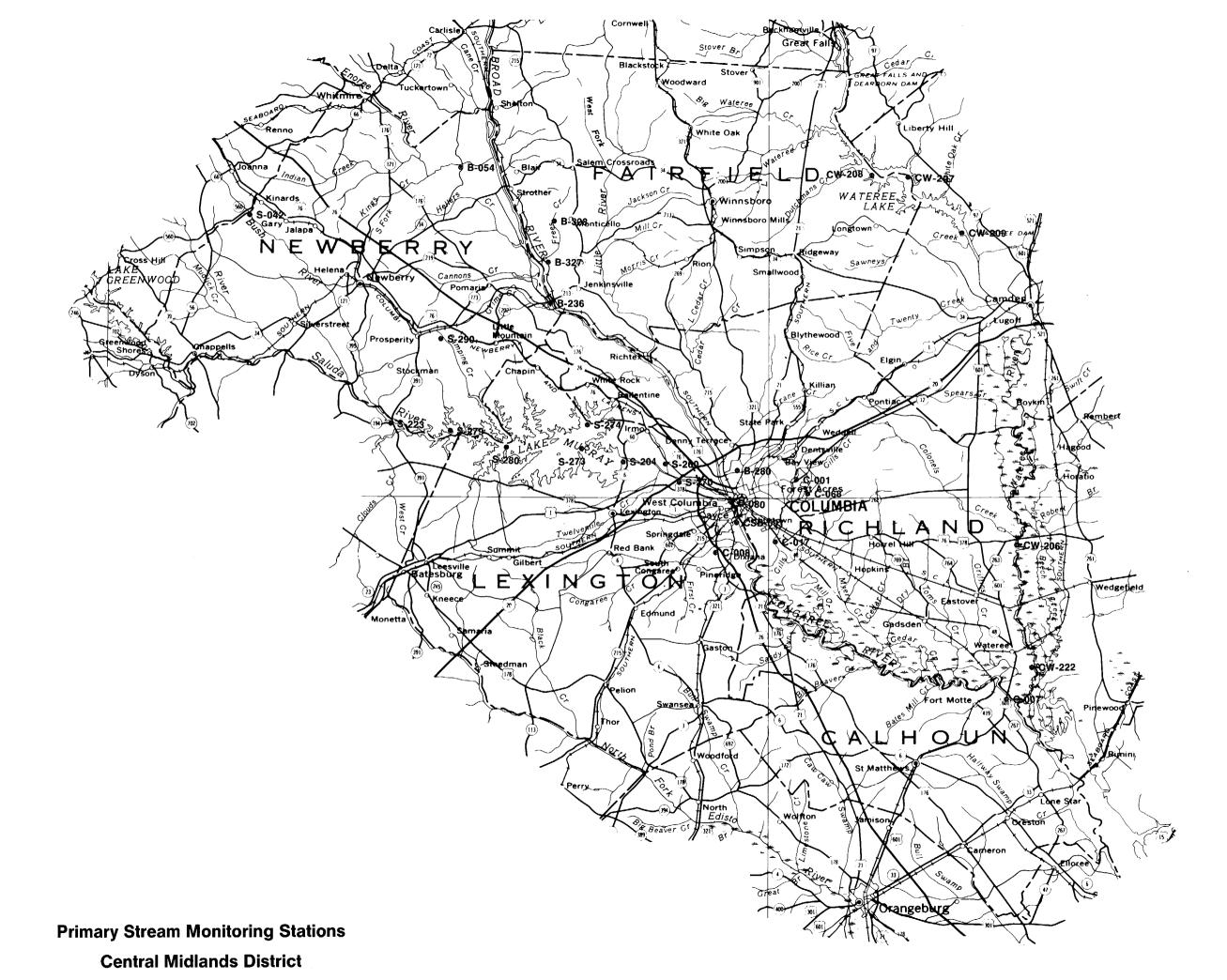
| B-054   ENOREE RVR AT S-36-45 3.5 MI AB JCT WITH BROAD RVR   2,11,16 0860  | Station | Description                                      | Criteria   | Basin |
|--|---------|--|------------|-------|
| BROAD RVR B-080 BROAD RIVER DIVERSION CANAL AT COLA WATER PLANT B-236 BROAD RVR AT SC 213 2.5 MI SW OF JENKINSVILLE 1,16 0850 B-280 SMITH BR AT N MAIN ST IN COLA 7,10 0850 B-327 MONTICELLO LK-LOWER IMPOUNDMENT BETWEEN LARGE ISLANDS B-328 MONTICELLO LK-UPPER IMPOUNDMENT AT BUOY IN MIDDLE OF LAKE C-001 GILLS CK AT BRDG ON US 76 (GARNERS FERRY ROAD) C-007 CONGAREE RVR AT US 601 C-008 CONGAREE CK AT US 21 AT CAYCE WATER INTAKE C-017 GILLS CK AT SC 48 (BLUFF ROAD) C-068 FOREST LAKE AT DAM CSB-001L CONGAREE RVR AT BLOSSOM ST (SALUDA RIVER) CSB-001L CONGAREE RVR AT BLOSSOM ST (BROAD RIVER) CW-206 WATEREE RVR AT BLOSSOM ST (BROAD RIVER) CW-207 LK WATEREE AT END OF S-20-291 LK WATEREE AT SPACL 13 IN IN OF DAM CW-209 LK WATEREE AT SMALL ISLAND 2.3 MI N OF DAM CW-209 LK WATEREE AT SMALL ISLAND 2.3 MI N OF DAM SCW-209 LK WATEREE AT ST SC 560 S OF JOANNA CW-222 WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE S-042 BUSH RIVER AT SC 560 S OF JOANNA S-204 LK MURRAY AT DAM AT SPILLWAY (MARKER 1) S-223 BLACKSGATE BR LK MURRAY AT SC 391 LK MURRAY AT DAM AT SPILLWAY (MARKER 1) S-270 SALUDA RVR AT I-20 S-271 LK MURRAY AT MARKER 163 S-272 LK MURRAY AT MARKER 163 S-273 LK MURRAY AT MARKER 163 S-274 LK MURRAY AT MARKER 163 S-280 LK MURRAY AT MARKER 102 S-290 CAMPING CK S-36-202 BLW GA PACIFIC 6 0838 S-279 LK MURRAY AT MARKER 102 S-290 CAMPING CK S-36-202 BLW GA PACIFIC   | R-054   | FNOREE RVR AT S-36-45 3.5 MI AR JCT WITH         |            |       |
| B-080 BROAD RIVER DIVERSION CANAL AT COLA WATER PLANT B-236 BROAD RVR AT SC 213 2.5 MI SW OF JENKINSVILLE B-280 SMITH BR AT N MAIN ST IN COLA B-327 MONTICELLO LK-LOWER IMPOUNDMENT BETWEEN LARGE ISLANDS B-328 MONTICELLO LK-UPPER IMPOUNDMENT AT BUOY IN MIDDLE OF LAKE C-001 GILLS CK AT BRDG ON US 76 (GARNERS FERRY ROAD) C-007 CONGAREE RVR AT US 601 C-008 CONGAREE CK AT US 21 AT CAYCE WATER INTAKE C-016 GILLS CK AT SC 48 (BLUFF ROAD) CONGAREE CK AT US 21 AT CAYCE WATER INTAKE C-017 GILLS CK AT SC 48 (BLUFF ROAD) CONGAREE RVR AT BLOSSOM ST (SALUDA RIVER) CSB-001L CONGAREE RVR AT BLOSSOM ST (BROAD RIVER) CW-206 WATEREE AT SC 48 SA 78 CW-207 LK WATEREE AT END OF S-20-291 CW-208 LK WATEREE AT SC 560 S OF JOANNA CW-222 WATEREE RIVER I C MI DI SONNELURICE WITH CONGAREE S-042 BUSH RIVER AT SC 560 S OF JOANNA CW-223 BLACKSGATE BR LK MURRAY AT SC 391 S-223 BLACKSGATE BR LK MURRAY AT SC 391 LK MURRAY AT DAM AT SPILLWAY (MARKER 1) S-270 SALUDA RVR AT I-20 SALUDA RVR AT I-20 SALUDA RVR AT I-20 SASSON SA OSSON SA OSSON SR |         |  | 2,11,16    | 0860  |
| B-236 BROAD RVR AT SC 213 2.5 MI SW OF JENKINSVILLE 1,16 0850 B-280 SMITH BR AT N MAIN ST IN COLA 7,10 0850 B-327 MONTICELLO LK-LOWER IMPOUNDMENT BETWEEN LARGE ISLANDS 12 0852 B-328 MONTICELLO LK-UPPER IMPOUNDMENT AT BUOY IN MIDDLE OF LAKE 12 0852 C-001 GILLS CK AT BRDG ON US 76 (GARNERS FERRY ROAD) 7 0824 C-007 CONGAREE RVR AT US 601 1,2,6,10,16 0824 C-008 CONGAREE RVR AT US 501 1,2,6,10,16 0824 C-017 GILLS CK AT SC 48 (BLUFF ROAD) 6,10 0824 C-068 FOREST LAKE AT DAM 15 0824 CSB-001L CONGAREE RVR AT BLOSSOM ST (SALUDA RIVER) 1,4,10,16 0824 CSB-001R CONGAREE RVR AT BLOSSOM ST (BROAD RIVER) 1,4,10,16 0824 CW-206 WATEREE RVR AT BLOSSOM ST (BROAD RIVER) 1,4,10,16 0826 CW-207 LK WATEREE AT END OF S-20-291 8 0830 CW-209 LK WATEREE AT SMALL ISLAND 2.3 MI N OF DAM 8 0830 CW-209 LK WATEREE AT SMALL ISLAND 2.3 MI N OF DAM 8 0830 CW-209 LK WATEREE AT SMALL ISLAND 2.3 MI N OF DAM 8 0830 CW-202 WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE 2,6 0826 S-042 BUSH RIVER AT SC 560 S OF JOANNA 6,10 0842 S-204 LK MURRAY AT DAM AT SPILLWAY (MARKER 1) 8 0838 S-270 SALUDA RVR AT I-20 2 0838 S-270 SALUDA RVR AT I-20 2 0838 S-271 LK MURRAY AT MARKER 166 8 0838 S-272 LK MURRAY AT MARKER 166 8 0838 S-274 LK MURRAY AT MARKER 166 8 0838 S-279 LK MURRAY AT MARKER 166 8 0838 S-280 LK MURRAY AT MARKER 102 8 0838 S-280 LK MURRAY AT MARKER 102 8 0838 S-280 LK MURRAY AT MARKER 102 8 0838 S-290 CAMPING CK S-36-202 BLW GA PACIFIC 6 0838  | B-080   |  |            |       |
| B-280 SMITH BR AT N MAIN ST IN COLA B-327 MONTICELLO LK-LOWER IMPOUNDMENT BETWEEN LARGE  |         | BROAD RVR AT SC 213 2.5 MI SW OF JENKINSVILLE    | 1,16       | 0850  |
| B-327 MONTICELLO LK-LOWER IMPOUNDMENT BETWEEN LARGE  | B-280   |  |            | 0850  |
| B-328 MONTICELLO LK-UPPER IMPOUNDMENT AT BUOY IN MIDDLE OF LAKE C-001 GILLS CK AT BRDG ON US 76 (GARNERS FERRY ROAD) C-007 CONGAREE RVR AT US 601 C-008 CONGAREE CK AT US 21 AT CAYCE WATER INTAKE C-017 GILLS CK AT SC 48 (BLUFF ROAD) C-068 FOREST LAKE AT DAM C-068 FOREST LAKE AT DAM CSB-001L CONGAREE RVR AT BLOSSOM ST (SALUDA RIVER) CW-206 WATEREE RVR AT BLOSSOM ST (BROAD RIVER) CW-207 LK WATEREE RVR AT US 76 & 378 CW-207 LK WATEREE AT END OF S-20-291 CW-208 LK WATEREE AT SMALL 1SLAND 2.3 MI N OF DAM CW-209 LK WATEREE AT SMALL 1SLAND 2.3 MI N OF DAM CW-209 LK WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE CW-204 BUSH RIVER AT SC 560 S OF JOANNA CW-222 WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE CS-042 BUSH RIVER AT SC 560 S OF JOANNA CW-223 BLACKSGATE BR LK MURRAY AT SC 391 S-223 BLACKSGATE BR LK MURRAY AT SC 391 S-270 SALUDA RVR AT I-20 CW-270 SALUDA RVR AT I-20 CW-271 LK MURRAY AT MARKER 166 CW-272 LK MURRAY AT MARKER 143 CW-273 LK MURRAY AT MARKER 143 CW-274 LK MURRAY AT MARKER 143 CW-275 SALUDA RVR AT I-20 CW-277 SALUDA RVR AT I-20 CW-278 SALUDA RVR AT MARKER 143 CW-279 LK MURRAY AT MARKER 166 CW-279 LK MURRAY AT MARKER 166 CW-279 LK MURRAY AT MARKER 163 CW-270 SALUDA RVR AT I-20 CW-270 SALUDA RVR AT MARKER 163 CW-271 SALUDA RVR AT MARKER 163 CW-272 LK MURRAY AT MARKER 163 CW-273 LK MURRAY AT MARKER 163 CW-274 LK MURRAY AT MARKER 163 CW-275 LK MURRAY AT MARKER 163 CW-276 CAMPING CK S-36-202 BLW GA PACIFIC  | B-327   | MONTICELLO LK-LOWER IMPOUNDMENT BETWEEN LARGE    | ·          |       |
| C-001 GILLS CK AT BRDG ON US 76 (GARNERS FERRY ROAD) 7 0824 C-007 CONGAREE RVR AT US 601 1,2,6,10,16 0824 C-008 CONGAREE CK AT US 21 AT CAYCE WATER INTAKE 12,15 0824 C-017 GILLS CK AT SC 48 (BLUFF ROAD) 6,10 0824 C-068 FOREST LAKE AT DAM 15 0824 CSB-001L CONGAREE RVR AT BLOSSOM ST (SALUDA RIVER) 1,4,10,16 0824 CSB-001R CONGAREE RVR AT BLOSSOM ST (BROAD RIVER) 1,4,10,16 0824 CW-206 WATEREE RVR AT US 76 & 378 1,2,5,6,16 0826 CW-207 LK WATEREE AT END OF S-20-291 8 0830 CW-208 LK WATEREE AT S-20-101 11 MI ENE WINNSBORO 8 0830 CW-209 LK WATEREE AT SMALL ISLAND 2.3 MI N OF DAM 8 0830 CW-222 WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE 2,6 0826 S-042 BUSH RIVER AT SC 560 S OF JOANNA 6,10 0842 S-204 LK MURRAY AT DAM AT SPILLWAY (MARKER 1) 8 0838 S-223 BLACKSGATE BR LK MURRAY AT SC 391 1,8 0838 S-260 KINLEY CK AT S-32-36 (ST. ANDREWS RD.) IN IRMO 10 0838 S-270 SALUDA RVR AT I-20 2 0838 S-271 LK MURRAY AT MARKER 166 8 0838 S-272 LK MURRAY AT MARKER 166 8 0838 S-274 LK MURRAY AT MARKER 163 8 0838 S-279 LK MURRAY AT MARKER 163 8 0838 S-279 LK MURRAY AT MARKER 163 8 0838 S-279 LK MURRAY AT MARKER 163 8 0838 S-280 LK MURRAY AT MARKER 102 8 0838 S-290 CAMPING CK S-36-202 BLW GA PACIFIC 6 0838   |         | ISLANDS  | 12         | 0852  |
| C-001 GILLS CK AT BRDG ON US 76 (GARNERS FERRY ROAD) C-007 CONGAREE RVR AT US 601 C-008 CONGAREE CK AT US 21 AT CAYCE WATER INTAKE C-017 GILLS CK AT SC 48 (BLUFF ROAD) C-068 FOREST LAKE AT DAM CSB-001L CONGAREE RVR AT BLOSSOM ST (SALUDA RIVER) CSB-001R CONGAREE RVR AT BLOSSOM ST (BROAD RIVER) CW-206 WATEREE RVR AT BLOSSOM ST (BROAD RIVER) CW-207 LK WATEREE AT END OF S-20-291 CW-208 LK WATEREE AT S-20-101 11 MI ENE WINNSBORO CW-209 LK WATEREE AT SMALL ISLAND 2.3 MI N OF DAM CW-222 WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE S-042 BUSH RIVER AT SC 560 S OF JOANNA S-224 LK MURRAY AT DAM AT SPILLWAY (MARKER 1) S-225 BLACKSGATE BR LK MURRAY AT SC 391 S-260 KINLEY CK AT S-32-36 (ST. ANDREWS RD.) IN IRMO S-270 SALUDA RVR AT I-20 2 0838 S-271 LK MURRAY AT MARKER 166 8 0838 S-272 LK MURRAY AT MARKER 166 8 0838 S-273 LK MURRAY AT MARKER 163 8 0838 S-279 LK MURRAY AT MARKER 163 8 0838 S-280 LK MURRAY AT MARKER 102 8 0838 S-290 CAMPING CK S-36-202 BLW GA PACIFIC  | B-328   |  |            |       |
| C-007 CONGAREE RVR AT US 601 C-008 CONGAREE CK AT US 21 AT CAYCE WATER INTAKE C-017 GILLS CK AT SC 48 (BLUFF ROAD) C-068 FOREST LAKE AT DAM CSB-001L CONGAREE RVR AT BLOSSOM ST (SALUDA RIVER) CSB-001R CONGAREE RVR AT BLOSSOM ST (BROAD RIVER) CW-206 WATEREE RVR AT US 76 & 378 CW-207 LK WATEREE AT END OF S-20-291 CW-208 LK WATEREE AT S-20-101 11 MI ENE WINNSBORO CW-209 LK WATEREE AT SMALL 1SLAND 2.3 MI N OF DAM CW-209 LK WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE S-042 BUSH RIVER AT SC 560 S OF JOANNA CW-222 WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE S-204 LK MURRAY AT DAM AT SPILLWAY (MARKER 1) S-223 BLACKSGATE BR LK MURRAY AT SC 391 S-224 LK MURRAY AT DAM AT SPILLWAY (MARKER 1) S-250 SALUDA RVR AT I-20 2 0838 S-270 SALUDA RVR AT I-20 2 0838 S-271 LK MURRAY AT MARKER 166 8 0838 S-272 LK MURRAY AT MARKER 166 8 0838 S-274 LK MURRAY AT MARKER 143 S-275 LK MURRAY AT MARKER 163 S-276 LK MURRAY AT MARKER 163 S-277 LK MURRAY AT MARKER 163 S-280 LK MURRAY AT MARKER 102 S-280 CAMPING CK S-36-202 BLW GA PACIFIC   |         |  |            |       |
| C-008 CONGAREE CK AT US 21 AT CAYCE WATER INTAKE  C-017 GILLS CK AT SC 48 (BLUFF ROAD)  C-068 FOREST LAKE AT DAM  CSB-001L CONGAREE RVR AT BLOSSOM ST (SALUDA RIVER)  CSB-001R CONGAREE RVR AT BLOSSOM ST (BROAD RIVER)  CW-206 WATEREE RVR AT US 76 & 378  CW-207 LK WATEREE AT END OF S-20-291  CW-208 LK WATEREE AT S-20-101 11 MI ENE WINNSBORO  CW-209 LK WATEREE AT SMALL 1SLAND 2.3 MI N OF DAM  CW-222 WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE  S-042 BUSH RIVER AT SC 560 S OF JOANNA  S-204 LK MURRAY AT DAM AT SPILLWAY (MARKER 1)  S-223 BLACKSGATE BR LK MURRAY AT SC 391  S-260 KINLEY CK AT S-32-36 (ST. ANDREWS RD.) IN IRMO  S-270 SALUDA RVR AT I-20  2 0838  S-271 LK MURRAY AT MARKER 166  S-272 SALUDA RVR AT I-20  LK MURRAY AT MARKER 143  S-273 LK MURRAY AT MARKER 143  S-274 LK MURRAY AT MARKER 163  S-275 LK MURRAY AT MARKER 163  S-276 CAMPING CK S-36-202 BLW GA PACIFIC  6 0826   |         | GILLS CK AT BRDG ON US 76 (GARNERS FERRY ROAD)   | •          |       |
| C-017 GILLS CK AT SC 48 (BLUFF ROAD) C-068 FOREST LAKE AT DAM CSB-001L CONGAREE RVR AT BLOSSOM ST (SALUDA RIVER) CSB-001R CONGAREE RVR AT BLOSSOM ST (BROAD RIVER) CW-206 WATEREE RVR AT US 76 & 378 CW-207 LK WATEREE AT END OF S-20-291 B 0830 CW-208 LK WATEREE AT S-20-101 11 MI ENE WINNSBORO CW-209 LK WATEREE AT SMALL ISLAND 2.3 MI N OF DAM CW-222 WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE S-042 BUSH RIVER AT SC 560 S OF JOANNA CW-224 LK MURRAY AT DAM AT SPILLWAY (MARKER 1) S-223 BLACKSGATE BR LK MURRAY AT SC 391 S-260 KINLEY CK AT S-32-36 (ST. ANDREWS RD.) IN IRMO S-270 SALUDA RVR AT I-20 CW-270 SALUDA RVR AT I-20 CW-271 LK MURRAY AT MARKER 166 CW-272 LK MURRAY AT MARKER 166 CW-273 LK MURRAY AT MARKER 166 CW-274 LK MURRAY AT MARKER 166 CW-275 SALUDA RVR AT I-20 CW-276 SALUDA RVR AT I-20 CW-277 SALUDA RVR AT MARKER 166 CW-277 SALUDA RVR AT MARKER |         |  |            |       |
| C-068 CSB-001L CONGAREE RVR AT BLOSSOM ST (SALUDA RIVER) CSB-001R CONGAREE RVR AT BLOSSOM ST (BROAD RIVER) CW-206 CW-206 CW-207 CW-207 CW-208 CW-208 CW-209 CW-209 CW-209 CW-202 CW-202 CW-202 CW-202 CW-203 CW-203 CW-203 CW-203 CW-204 CW-205 CW-205 CW-207 CW-208 CW-209  |         |  | 12,15      |       |
| CSB-001L CONGAREE RVR AT BLOSSOM ST (SALUDA RIVER) CSB-001R CONGAREE RVR AT BLOSSOM ST (BROAD RIVER)  CW-206 WATEREE RVR AT US 76 & 378  CW-207 LK WATEREE AT END OF S-20-291  CW-208 LK WATEREE AT S-20-101 11 MI ENE WINNSBORO  CW-209 LK WATEREE AT SMALL 1SLAND 2.3 MI N OF DAM  CW-222 WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE  S-042 BUSH RIVER AT SC 560 S OF JOANNA  S-204 LK MURRAY AT DAM AT SPILLWAY (MARKER 1)  S-223 BLACKSGATE BR LK MURRAY AT SC 391  S-260 KINLEY CK AT S-32-36 (ST. ANDREWS RD.) IN IRMO  S-270 SALUDA RVR AT I-20  S-273 LK MURRAY AT MARKER 166  S-274 LK MURRAY AT MARKER 166  S-275 LK MURRAY AT MARKER 143  S-276 LK MURRAY AT MARKER 143  S-277 LK MURRAY AT MARKER 163  S-278 LK MURRAY AT MARKER 163  S-280 LK MURRAY AT MARKER 102  S-290 CAMPING CK S-36-202 BLW GA PACIFIC  1,4,10,16 0824  1,4,10,16 0824  1,4,10,16 0824  1,2,5,6,16 0826  8 0830  CR30  CR30  CR30  CW-207 LK MORAY  S-20-201 IN IRMO  10 0838  S-210 SALUDA RVR AT I-20  2 0838  S-270 SALUDA RVR AT I-20  3 0838  S-271 SALUDA RVR AT MARKER 166  8 0838  S-272 LK MURRAY AT MARKER 166  8 0838  S-273 LK MURRAY AT MARKER 166  8 0838  S-274 LK MURRAY AT MARKER 166  8 0838  S-279 LK MURRAY AT MARKER 166  8 0838  S-280 LK MURRAY AT MARKER 102  8 0838  |         |  |            |       |
| CW-207 LK WATEREE AT END OF S-20-291  CW-208 LK WATEREE AT S-20-101 11 MI ENE WINNSBORO  CW-209 LK WATEREE AT SMALL 1SLAND 2.3 MI N OF DAM  CW-222 WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE  S-042 BUSH RIVER AT SC 560 S OF JOANNA  S-204 LK MURRAY AT DAM AT SPILLWAY (MARKER 1)  S-223 BLACKSGATE BR LK MURRAY AT SC 391  S-260 KINLEY CK AT S-32-36 (ST. ANDREWS RD.) IN IRMO  S-270 SALUDA RVR AT I-20  S-273 LK MURRAY AT MARKER 166  S-274 LK MURRAY AT MARKER 166  S-274 LK MURRAY AT MARKER 143  S-279 LK MURRAY AT MARKER 63  S-280 LK MURRAY AT MARKER 102  S-290 CAMPING CK S-36-202 BLW GA PACIFIC  8 0838  |         | FOREST LAKE AT DAM                               | 15         | 0824  |
| CW-207 LK WATEREE AT END OF S-20-291  CW-208 LK WATEREE AT S-20-101 11 MI ENE WINNSBORO  CW-209 LK WATEREE AT SMALL 1SLAND 2.3 MI N OF DAM  CW-222 WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE  S-042 BUSH RIVER AT SC 560 S OF JOANNA  S-204 LK MURRAY AT DAM AT SPILLWAY (MARKER 1)  S-223 BLACKSGATE BR LK MURRAY AT SC 391  S-260 KINLEY CK AT S-32-36 (ST. ANDREWS RD.) IN IRMO  S-270 SALUDA RVR AT I-20  S-273 LK MURRAY AT MARKER 166  S-274 LK MURRAY AT MARKER 166  S-274 LK MURRAY AT MARKER 143  S-279 LK MURRAY AT MARKER 63  S-280 LK MURRAY AT MARKER 102  S-290 CAMPING CK S-36-202 BLW GA PACIFIC  8 0838  |         | CONGAREE RVR AT BLOSSOM ST (SALUDA RIVER)        | 1,4,10,16  | 0824  |
| CW-207 LK WATEREE AT END OF S-20-291  CW-208 LK WATEREE AT S-20-101 11 MI ENE WINNSBORO  CW-209 LK WATEREE AT SMALL 1SLAND 2.3 MI N OF DAM  CW-222 WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE  S-042 BUSH RIVER AT SC 560 S OF JOANNA  S-204 LK MURRAY AT DAM AT SPILLWAY (MARKER 1)  S-223 BLACKSGATE BR LK MURRAY AT SC 391  S-260 KINLEY CK AT S-32-36 (ST. ANDREWS RD.) IN IRMO  S-270 SALUDA RVR AT I-20  S-273 LK MURRAY AT MARKER 166  S-274 LK MURRAY AT MARKER 166  S-274 LK MURRAY AT MARKER 143  S-279 LK MURRAY AT MARKER 63  S-280 LK MURRAY AT MARKER 102  S-290 CAMPING CK S-36-202 BLW GA PACIFIC  8 0838  |         | CONGAREE RVR AT BLOSSOM ST (BROAD RIVER)         | 1,4,10,16  | 0824  |
| CW-222       WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE       2,6       0826         S-042       BUSH RIVER AT SC 560 S OF JOANNA       6,10       0842         S-204       LK MURRAY AT DAM AT SPILLWAY (MARKER 1)       8       0838         S-223       BLACKSGATE BR LK MURRAY AT SC 391       1,8       0838         S-260       KINLEY CK AT S-32-36 (ST. ANDREWS RD.) IN IRMO       10       0838         S-270       SALUDA RVR AT I-20       2       0838         S-273       LK MURRAY AT MARKER 166       8       0838         S-274       LK MURRAY AT MARKER 143       8       0838         S-279       LK MURRAY AT MARKER 63       8       0838         S-280       LK MURRAY AT MARKER 102       8       0838         S-290       CAMPING CK S-36-202 BLW GA PACIFIC       6       0838  |         | WATEREE RVR AT US 70 & 370                       | 1,2,5,0,10 | 0020  |
| CW-222       WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE       2,6       0826         S-042       BUSH RIVER AT SC 560 S OF JOANNA       6,10       0842         S-204       LK MURRAY AT DAM AT SPILLWAY (MARKER 1)       8       0838         S-223       BLACKSGATE BR LK MURRAY AT SC 391       1,8       0838         S-260       KINLEY CK AT S-32-36 (ST. ANDREWS RD.) IN IRMO       10       0838         S-270       SALUDA RVR AT I-20       2       0838         S-273       LK MURRAY AT MARKER 166       8       0838         S-274       LK MURRAY AT MARKER 143       8       0838         S-279       LK MURRAY AT MARKER 63       8       0838         S-280       LK MURRAY AT MARKER 102       8       0838         S-290       CAMPING CK S-36-202 BLW GA PACIFIC       6       0838  | CW-207  | LK WATEREE AT END OF S-20-291                    | 8          |       |
| CW-222       WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE       2,6       0826         S-042       BUSH RIVER AT SC 560 S OF JOANNA       6,10       0842         S-204       LK MURRAY AT DAM AT SPILLWAY (MARKER 1)       8       0838         S-223       BLACKSGATE BR LK MURRAY AT SC 391       1,8       0838         S-260       KINLEY CK AT S-32-36 (ST. ANDREWS RD.) IN IRMO       10       0838         S-270       SALUDA RVR AT I-20       2       0838         S-273       LK MURRAY AT MARKER 166       8       0838         S-274       LK MURRAY AT MARKER 143       8       0838         S-279       LK MURRAY AT MARKER 63       8       0838         S-280       LK MURRAY AT MARKER 102       8       0838         S-290       CAMPING CK S-36-202 BLW GA PACIFIC       6       0838  |         | LK WATEREE AT S-20-101 11 MT ENE WINNSBURO       | 8          |       |
| S-042       BUSH RIVER AT SC 560 S OF JOANNA       6,10       0842         S-204       LK MURRAY AT DAM AT SPILLWAY (MARKER 1)       8       0838         S-223       BLACKSGATE BR LK MURRAY AT SC 391       1,8       0838         S-260       KINLEY CK AT S-32-36 (ST. ANDREWS RD.) IN IRMO       10       0838         S-270       SALUDA RVR AT I-20       2       0838         S-273       LK MURRAY AT MARKER 166       8       0838         S-274       LK MURRAY AT MARKER 143       8       0838         S-279       LK MURRAY AT MARKER 63       8       0838         S-280       LK MURRAY AT MARKER 102       8       0838         S-290       CAMPING CK S-36-202 BLW GA PACIFIC       6       0838   |         |  | 8          | 0830  |
| S-260       KINLEY CK AT S-32-36 (ST. ANDREWS RD.) IN IRMO       10       0838         S-270       SALUDA RVR AT I-20       2       0838         S-273       LK MURRAY AT MARKER 166       8       0838         S-274       LK MURRAY AT MARKER 143       8       0838         S-279       LK MURRAY AT MARKER 63       8       0838         S-280       LK MURRAY AT MARKER 102       8       0838         S-290       CAMPING CK S-36-202 BLW GA PACIFIC       6       0838  |         | WATEREE RIVER 1.6 MI US CONFLUENCE WITH CONGAREE | 2,6        | 0826  |
| S-260       KINLEY CK AT S-32-36 (ST. ANDREWS RD.) IN IRMO       10       0838         S-270       SALUDA RVR AT I-20       2       0838         S-273       LK MURRAY AT MARKER 166       8       0838         S-274       LK MURRAY AT MARKER 143       8       0838         S-279       LK MURRAY AT MARKER 63       8       0838         S-280       LK MURRAY AT MARKER 102       8       0838         S-290       CAMPING CK S-36-202 BLW GA PACIFIC       6       0838  |         | BUSH RIVER AT SC 500 S OF JUANNA                 | 6,10       |       |
| S-260       KINLEY CK AT S-32-36 (ST. ANDREWS RD.) IN IRMO       10       0838         S-270       SALUDA RVR AT I-20       2       0838         S-273       LK MURRAY AT MARKER 166       8       0838         S-274       LK MURRAY AT MARKER 143       8       0838         S-279       LK MURRAY AT MARKER 63       8       0838         S-280       LK MURRAY AT MARKER 102       8       0838         S-290       CAMPING CK S-36-202 BLW GA PACIFIC       6       0838  |         | LK MURKAY AT DAM AT SPILLWAY (MAKKER 1)          | გ<br>1 0   |       |
| S-270       SALUDA RVR AT I-20       2       0838         S-273       LK MURRAY AT MARKER 166       8       0838         S-274       LK MURRAY AT MARKER 143       8       0838         S-279       LK MURRAY AT MARKER 63       8       0838         S-280       LK MURRAY AT MARKER 102       8       0838         S-290       CAMPING CK S-36-202 BLW GA PACIFIC       6       0838   |         | DEMONSURIE DR EN MURKAT AT SC 591                | 1,0        |       |
| S-280  |         |  | 10         |       |
| S-280  |         |  | 2          |       |
| S-280  |         | •  | Q<br>Q     |       |
| S-280  |         |  | ο<br>8     |       |
| S-290 CAMPING CK S-36-202 BLW GA PACIFIC 6 0838  |         |  | 8          |       |
| S-294 TWELVE MILE CREEK AT U.S. ROUTE 378 17 0838  | S-290   |  | 6          |       |
|  | S-294   | TWELVE MILE CREEK AT U.S. ROUTE 378              | 17         | 0838  |

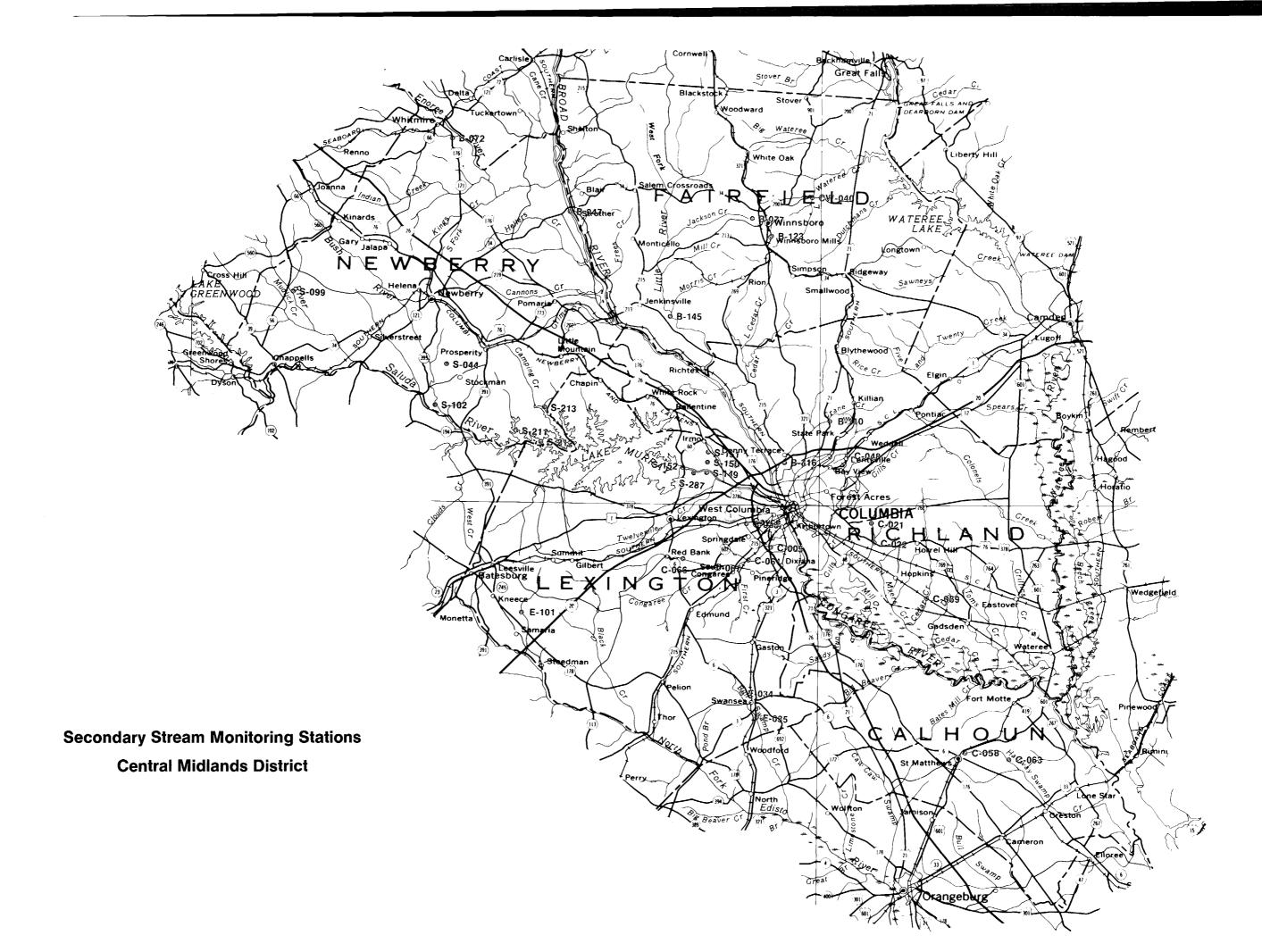
| <pre>1 = Influent to segment (sub-basin) 2 = Effluent to segment 3 = Major streams at state lines 4 = Confluence of major streams 5 = Above a major industrial area 6 = Below a major industrial area 7 = Water Quality limited area 8 = Major lake</pre> | 9 = Above major municipal area 10 = Below major municipal area 11 = Mouth of major tributary 12 = Major water use area 13 = Above major land use area 14 = Below major land use area 15 = Above a water intake |
|---|--|
| 8 = Major lake  | 16 = Basic Water Monitoring Program 17 = Other   |

# STREAM STATIONS FOR COLUMBIA - SECONDARY CENTRAL MIDLANDS DISTRICT

| Station        | Description  | Criteria | <u>Basin</u> |
|----------------|--|----------|--------------|
| B-047          | BROAD RVR AT SC 34 14 MI NE OF NEWBERRY  | 6        | 0852         |
| B-072          | DUNCAN CK AT US 176 1.5 MI SE OF WHITMIRE  | ĕ        | 0860         |
| B-077          | WINNSBORO BR BELOW PLANT OUTFALL   | 10       | 0850         |
| B-110          |  |          | 0850         |
| B-123          | LK ELIZABETH AT SPILLWAY ON US 21<br>WINNSBORO BR AT US 321-AB WINNSBORO MILLS OUTFALL | 5        | 0850         |
| B-145          | LITTLE RVR AT S-20-60 3.1 MI SW OF JENKINSVILLE  | 17       | 0850         |
| B-316          | CRANE CK AT S-40-43 UNDER I-20 - N COLA  | 7        | 0850         |
| C-005          | SIX MI CK ON US 21 S OF CAYCE  | 10       | 0824         |
| C-021          | MILL CK AT SC 262  | 9        | 0824         |
| C-022          | MILL CK AT US 76 AT PINEWOOD LK 8 MI SE OF COLA  | 9        | 0824         |
| C-025          | LK CAROLINE SPILLWAY AT PLATT SPRINGS RD   | 10       | 0824         |
| C-048          | WINDSOR LK SPILLWAY ON WINSDOR LK BLVD   | 7        | 0824         |
| C- <b>05</b> 8 | LK INSPIRATION - ST MATTHEWS (FRONT OF HEALTH DEPT)                                    | 9 ·      | 0804         |
| C-061          |  | 9,17     | 0824         |
| C-063          | HALFWAY SWP CK AT S-09-43 3 MI E OF ST MATTHEWS  | 10       | 0804         |
| C-066          | RED BANK CK AT S-32-244  | 9        | 0824         |
| C-067          | RED BANK CK AT SANDY SPRINGS RD BTWN S-32-104 &  |          |              |
|                | SC 602   | 10       | 0824         |
| C-069          | CEDAR CREEK AT S-40-66   | 14       | 0824         |
| CW-040         | LITTLE WATEREE CK AT S-20-41 5 MI E OF WINNSBORO                                       | 10       | 0830         |
| E-034          | BULL SWP CK AT CLVT ON UNIMP RD 1.1 MI NW OF   |          | •            |
|                | SWANSEA  | 9        | 0914         |
| E-035          | BULL SWP CK AT US 321 0.9 MI S OF SWANSEA  | 10       | 0914         |
| E-101          | LIGHTWOOD KNOT CREEK OFF LEXINGTON CO. RD 77   |          |              |
|                | AT CITY OF BATESBURG WATER INTAKE  | 10,15    | 0916         |
| S-044          | SCOTT CK AT SC 34 SW OF NEWBERRY   | 9        | 0842         |
| S-099          | LITTLE RVR AT S-36-22 8.3 MI NW SILVERSTREET   | 11       | 0842         |
| S-102          | BUSH RVR AT S-36-41 8.5 MI S OF NEWBERRY   | 11       | 0842         |
| S-149          | SALUDA RVR AT MEPCO ELECT. PLANT WATER INTAKE  | 7.5      | 0000         |
| C 150          | 2.8 MI SSE IRMO  | 15       | 0838         |
| S-150          | LORICK BR AT PT UPSTRM OF JCT WITH SALUDA RVR  | 10       | 0838         |
| S-151          | LORICK BR AT S-32-107 2 MI SSE IRMO<br>SALUDA RVR JUST BELOW LK MURRAY DAM             | 10       | 0838         |
| S-152<br>S-211 | HOLLANDS LANDING LK MURRAY OFF S-36-26 AT END  | 8        | 0838         |
| 3-211          | OF S-36-3  | 0        | 0020         |
| S-212          | MACEDONIA LANDING LK MURRAY AT END OF S-36-26  | 8        | 0838         |
| 3-616          | MACEDONIA LANDING EN MORKAT AT END OF 3-36-26  | 8        | 0838         |
| S-213          | ADAMS CAMP BR ON CO RD S-36-15 OFF S-36-26   | 8        | 0838         |
| S-287          | RAWLS CREEK AT S-32-107  | 10,14    | 0838         |
| 3-201          | IVARLS CILLIX AT 3-32-107  | 10,14    | 0000         |

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| 3 = Major streams at state lines               | <pre>11 = Mouth of major tributary</pre>       |
| 4 = Confluence of major streams                | 12 = Major water use area                      |
| 5 = Above a major industrial area              | 13 = Above major land use area                 |
| 6 = Below a major industrial area              | <pre>14 = Below major land use area</pre>      |
| 7 = Water Quality limited area                 | 15 = Above a water intake                      |
| 8 = Major lake                                 | <pre>16 = Basic Water Monitoring Program</pre> |
|  | 17 = Other                                     |

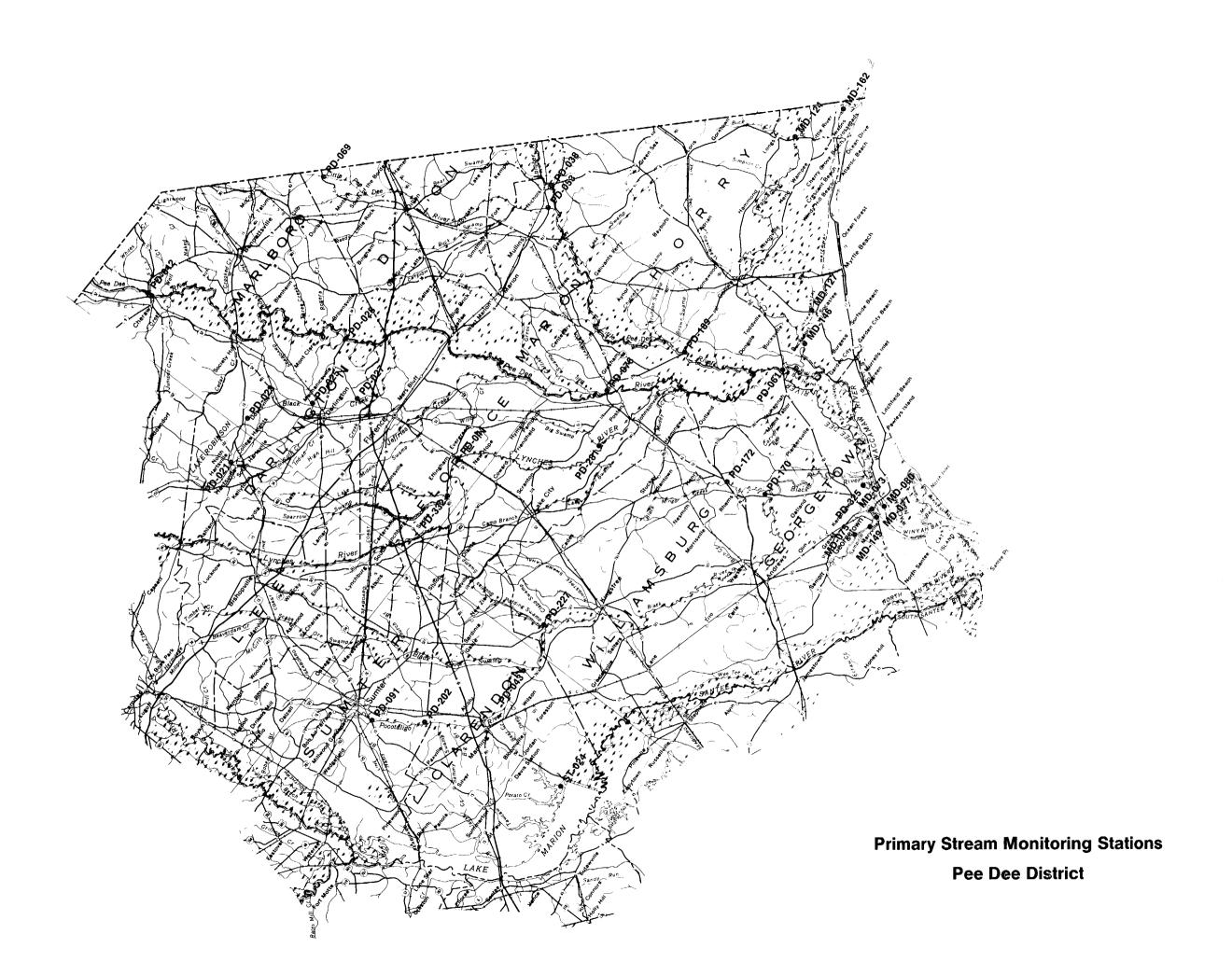




## STREAM STATIONS FOR FLORENCE - PRIMARY PEE DEE DISTRICT

| <u>Station</u>   | Description   | Criteria  | Basin          |
|------------------|---|-----------|----------------|
| MD-073           | SAMPIT RVR OPP AMER CYANAMID CHEM CO<br>SAMPIT RVR BTWN MOUTHS OF PORTS CK & PENNY  | 6         | 0702           |
| MD-075<br>MD-077 | RUTAL CK  | 5<br>5,6  | 0702<br>0702   |
| MD-080           | WINYAH BAY AT JCT OF PEE DEE & WACCAMAW AT MARKER 92  | 2,4,16    | 0702           |
| MD-124<br>MD-127 | WACCAMAW RVR AT SC 9 7.0 MI W OF CHERRY GROVE   | 1         | 0716           |
|                  | MYRTLE BEACH  | 2,10      | 0715           |
| MD-146           | LANDING   | 2,4       | 0716           |
| MD-149           | WHITES CK 100 YDS UPSTRM OF JCT WITH SAMPIT RVR   | 10        | 0702           |
| MD-162           | WHITES CK 100 YDS UPSTRM OF JCT WITH SAMPIT RVR LITTLE RVR AT S END OF ISL DUE E OF TOWN (IN RVR) PEE DEE RVR AT US 1 NE CHERAW BLACK CK AT S-16-18 1 MI NNE HARTSVILLE BLACK CK AT S-16-13 5.5 MI NE HARTSVILLE BLACK CK AT S-16-33 2.25 MI NE OF DARLINGTON BLACK CK AT S-16-35 5.5 MI SE DARLINGTON PEE DEE RVR AT SC 34 11 MI NE DARLINGTON LUMBER RVR AT US 76 AT NICHOLS LYNCHES RVR AT US 76 AT NICHOLS LYNCHES RVR AT US 52 NEAR EFFINGHAM POCOTALIGO RVR AT S-14-50 9.5 MI NE MANNING LITTLE PEE DEE AT S-34-60 PEE DEE RVR AT US 701 2.75 MI NE YAUHANNAH LITTLE PEE DEE RVR AT SC 57 11.5 MI NW DILLON | 1         | 0715           |
| PD-012<br>PD-021 | PLE DEE RVK AI US I NE CHEKAW   | 1 5       | 0726 ·<br>0725 |
| PD-021<br>PD-023 | RIACK CK AT S-10-10 I MI NIVE HARTSVILLE  | 5<br>6    | 0725           |
| PD-025           | BLACK CK AT S-16-133 2.25 MI NE OF DARLINGTON   | 6         | 0725           |
| PD-027           | BLACK CK AT S-16-35 5.5 MI SE DARI INGTON   | 6,10,16   |                |
| PD-028           | PEE DEE RVR AT SC 34 11 MI NE DARLINGTON  | 2,16      | 0726           |
| PD-038           | LUMBER RVR AT US 76 AT NICHOLS  | 2,16      | 0722           |
| PD-041           | LYNCHES RVR AT US 52 NEAR EFFINGHAM   | 1         | 0728           |
| PD-043           | POCOTALIGO RVR AT S-14-50 9.5 MI NE MANNING   | 2         | 0714           |
| PD-052           | LITTLE PEE DEE AT S-34-60   | 2         | 0720           |
| PD-061           | PEE DEE RVR AT US 701 2.75 MI NE YAUHANNAH  | 1,16      | 0702           |
| PD-069           |   | -         | 0720           |
| PD-076           | GREAT PEE DEE RVR AT US 378   | 6,17      | 0724           |
| PD-091           | POCOTALIGO RVR AT US 15 3.5 MI S SUMTER   | 1,9       | 0714           |
| PD-170           | BLACK RVR AT SC 51 11.6 MI NE OF ANDREWS  | 1         | 0706           |
| PD-189           | LITTLE PEE DEE RVR AT US 378 12 MI W CONWAY   | 2         | 0718           |
| PD-202           | POCOTALIGO RVR AT S-43-32 9 MI SSE OF SUMTER  | 6,7,10,16 | 0714           |
| PD-227           | BLACK RVR AT S-45-35 8.6 MI NW OF KINGSTREE   | 1,2       | 0712           |
| PD-281           | LYNCHES RVR AT S-21-49 5 MI NW JOHNSONVILLE   | 2,9       | 0728           |
| PD-325           | BLACK RVR AT S-22-489 4 MI NE GEORGETOWN SPARROW SWAMP AT S-21-55 NR JOHNSONS CROSSROADS  | 2         | 0706           |
| PD-332<br>ST-024 | LK MARION AT END OF S-14-64 AT CAMP BOB COOPER  | 2,14<br>8 | 0730<br>0804   |

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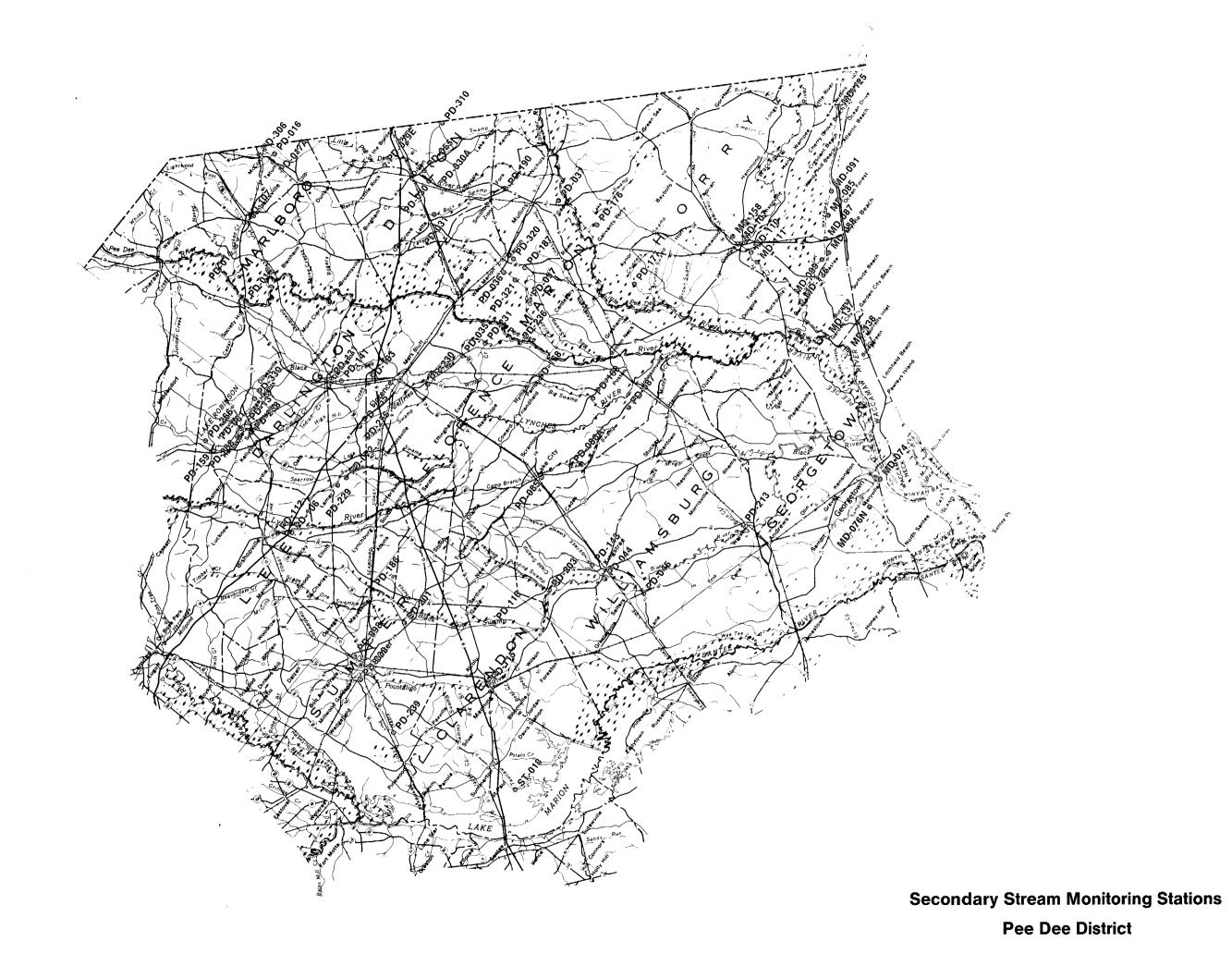
# STREAM STATIONS FOR FLORENCE - SECONDARY PEE DEE DISTRICT

| <u>Station</u>   | Description  | Criteria | <u>Basin</u> |
|------------------|--|----------|--------------|
| MD-074           | SAMPIT RVR AT CHANNEL MARKER #30   | 4        | 0702         |
| MD-076N          | TURKEY CK S-22-42 SW OF GEORGETOWN   | 6        | 0702         |
| MD-085           | INTRACOASTAL WTRWAY AT PT 3 MI N OF BRDG ON  |          |              |
|                  | US 501   | 10       | 0715         |
| MD-087           | INTRACOASTAL WTRWAY JUST N OF BRDG ON US 501   | 9,10     | 0715         |
| MD-088           | INTRACOASTAL WTRWAY 1 MI S OF BRDG ON US 501   |          | 0715         |
| MD-089           | INTRACOASTAL WTRWY 2 MI S OF BRDG ON US 501  | 9,10     | 0715         |
| MD-091           | INTRACOASTAL WTRWY 4 MI N OF BRDG ON US 501<br>KINGSTON LK NR PUMP STA ON LAKESIDE DR CONWAY   | 9,10     | 0715         |
| MD-107           | KINGSTON LK NR PUMP STA ON LAKESIDE DR CONWAY  | 10       | 0716         |
| MD-110           | WACCAMAW RVR AT US 501 BY PASS AROUND CONWAY   | 17       | 0716         |
| MD-111           | WACCAMAW RVR AT COX'S FERRY ON CO RD 110   | 10       | 0716         |
| MD-125           | INTRACOASTAL WTRWY (LITTLE RVR) ON SC 9 (US 17)  | 9        | 0715         |
| MD-136           | WACCAMAW RVR 1/4 MI UPSTRM OF JCT WITH INTRA-  |          |              |
| ND 107           | COASTAL WTRWY  | 4        | 0716         |
| MD-137           | WACCAMAW RVR NR MOUTH OF BULL CK AT CHANNEL  | ^        | 0700         |
| MD 120           | MARKER 50  | 9        | 0702         |
| MD-138           | WACCAMAW RVR AT CHANNEL MARKER 57  | 10       | 0702         |
| MD-158           | CRABTREE CK AT LONG ST BL OUTFALL OF CONWAY #1 POND  | 10       | 0716         |
| PD-014           | CDUOKED CD VI 2-3E-V3  | 10       | 0716         |
| PD-014<br>PD-015 | DEF REF DVD AT HS 15 .   | 6        | 0726         |
| PD-015           | PANTHER OK AT 9-35-27  | 10       | 0720         |
| PD-017A          | MCCLAUREN'S MILL POND SC 381   | 10       | 0720         |
| PD-029E          | LITTLE PEE DEE RVR AT S-17-23  | 5        | 0720         |
| PD-030           | CROOKED CR AT S-35-43 PEE DEE RVR AT US 15 PANTHER CK AT S-35-27 MCCLAUREN'S MILL POND SC 381 LITTLE PEE DEE RVR AT S-17-23 MAPLE SWP AT SC 57 | 10       | 0720         |
| PD-030A          | LITTLE PEE DEE RVR BELOW JCT WITH MAPLE SWP  | 10       | 0720         |
|                  | DUCK CUD AT C 17 33  | 10       | 0720         |
| PD-035           | JEFFERIES CK AT SC 327 AT CLAUSSEN   | 10       | 0724         |
| PD-036           | CATFISH CK AT US 76  | 9        | 0724         |
| PD-037           | BROWN SWP AT S-34-31   | 10       | 0718         |
| PD-039           | GREEN SWP AT S-43-33   | 9        | 0714         |
| PD-042           | LITTLE PEE DEE RIVER AT US 501   | 10       | 0718         |
| PD-044           | BLACK RVR AT US 52 AT KINGSTREE  | 5,9      | 0710         |
| PD-045           | BLACK RVR AT SC 377 AT BRYAN'S CROSS ROADS   | 6        | 0710         |
| PD-055           | LITTLE PEE DEE RVR AT SC 9   | 5,6      | 0720         |
| PD-072           | SPARROW SWP AT S-16-697 2.5 MI E OF LAMAR  | 10       | 0730         |
| PD-081           | PRESTWOOD LK AT US 15  | 8<br>9   | 0725         |
| PD-085           | LYNCHES LK AT US 378   | 9        | 0728         |

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| 6 = Below a major industrial area                                      | 14 = Below major land use area                                    |
| 7 = Water Quality limited area   | 15 = Above a water intake   |
| 8 = Major lake   | 16 = Basic Water Monitoring Program                               |
|  | 17 = Other  |

# STREAM STATIONS FOR FLORENCE - SECONDARY PEE DEE DISTRICT

| <u>Station</u> | Description  | Criteria    | <u>Basin</u> |
|----------------|--|-------------|--------------|
| PD-086A        | LYNCHES LK ON SC 341                               | 10          | 0728         |
| PD-087         | LYNCHES LK AT SC 341 2.6 MI W OF JOHNSONVILLE      | 9           | 0728         |
| PD-097         | CATFISH CANAL AT S-34-38 IN MARION                 | 7           | 0724         |
| PD-098         | TURKEY CK AT LIBERTY ST IN SUMTER ABOVE            |             |              |
| . 5 000        | SANTEE PRI   | 5,9         | 0714         |
| PD-103         | HIGH HILL CK AT US 52 ON CO LINE                   | 9           | 0725         |
| PD-106         | LYNCHES RVR ON I-20 4 OR 5 MI BELOW                |             |              |
| 15 100         | BISHOPVILLE SEPTIC                                 | 10          | 0730         |
| PD-107         | CROOKED CK AT SC 9 IN BENNETTSVILLE                |             | 0726         |
| PD-112         | COUSAR BR 1/4 MI BELOW BISHOPVILLE FINISHING CO    | 9<br>6<br>7 | 0730         |
| PD-115         | POCOTALIGO RVR AT 3RD BRDG N OF MANNING ON US 301  | 7           | 0714         |
| PD-116         | BLACK RVR AT S-14-40 E OF MANNING                  | 17          | 0712         |
| PD-137         | SNAKE BR AT WOODMILL ST-HARTSVILLE                 | 6           | 0725         |
| PD-141         | 60" TILE DISCHARGING TO DITCH ACROSS RD AT         | ·           | 0,20         |
| LD-141         | DARLINGTON STP                                     | 10          | 0725         |
| PD-143         | KINGSTREE SWP CANAL AT S-45-44 2.1 MI NNE          | 10          | 0,20         |
| 10-143         | KINGSTREE  | 6           | 0710         |
| PD-159         | BLACK CK AT S-16-23 4.7 MI NW OF HARTSVILLE        | 6           | 0725         |
| PD-168         | BIG SWP AT S-21-360 1.1 MI W OF PAMPLICO           | ğ           | 0728         |
| PD-169         | BIG SWP AT US 378 & SC 51 0.9 MI W OF SALEM        | 9<br>7      | 0728         |
| PD-172         | BLACK MINGO CK AT SC 41 14 MI NE OF ANDREWS        | 2,14        | 0.708        |
| PD-176         | LAKE SWP AT S-26-99 5.9 MI NW OF AYNOR             | 17          | 0718         |
| PD-177         | CHINNERS MILL BR AT S-26-24 1.9 MI SSE AYNOR       | 10          | 0718         |
| PD-186         | BLACK RVR AT US 76 1.5 MI NE OF MAYESVILLE         | 9           | 0712         |
| PD-187         | SMITH SWP AT US 501 1.9 MI SSE OF MARION           | 10          | 0724         |
| PD-190         | MAIDEN DOWN SWP AT SC 41 3.5 MI N OF MULLINS       | 6,10        | 0720         |
| PD-201         | ROCKY BLUFF SWP AT S-43-41 8.1 MI E OF SUMTER      | 10          | 0712         |
| PD-203         | PUDDING SWP AT SC 527 8.1 MI NW OF KINGSTREE       | 10,11       | 0712         |
| PD-229         | NEWMAN SWP AT S-16-449 0.9 MI NE OF LAMAR          | 9           | 0730         |
| PD-230         | MIDDLE SWP AT SC 51 3.5 MI SSE OF FLORENCE         | 10          | 0724         |
| PD-231         | JEFFRIES CK AT UN# RD 3.3 MI ESE OF CLAUSSEN       | 17          | 0724         |
| PD-236         | PEE DEE RVR 2.5 MI DWNSTREM FROM MOUTH OF          | 17          | 0/24         |
| FD-230         | JEFFRIES CK  | 6,10        | 0724         |
| PD-239         | NASTY BR AT S-43-251 7.5 MI SW OF SUMTER           | 6           | 0714         |
| PD-255         | JEFFRIES CK AT SC 340 6.8 MI SSW OF DARLINGTON     | 5           | 0724         |
| PD-256         | JEFFRIES CK AT S-21-112 4.8 MI W OF FLORENCE       | 6           | 0724         |
| PD-258         | SNAKE BR AT RR AVE IN HARTSVILLE                   | 6           | 0725         |
| PD-258         | SONOVESTA CLUB HARTSVILLE OFF DOCK OF PRESTWOOD LK | 8           | 0725         |
| PD-206         | PANTHER CK AT US 15 OUTSIDE MCCOLL                 | 9           | 0723         |
| PD-310         | BEAVERDAM CK AT S-17-30 8 MI E OF DILLON           |             | 0720         |
|                |  | 17          |              |
| PD-319         | LYNCHES RIVER AT SC 403                            | 17          | 0730         |
| PD-320         | SMITH SWP AT S-34-19 1 MI E OF MARION              | 9           | 0724         |
| PD-321         | CATFISH CANAL AT MARION BYPASS 2 MI SW OF MARION   | 10          | 0724         |
| PD-330         | BLACK CK AT HWY 15 BYPASS                          | 10          | 0725         |
| ST-018         | TAWCAW CK AT S-14-127 3.2 MI S OF SUMMERTON        | 10          | 0804         |



## STREAM STATIONS FOR GREENVILLE - PRIMARY APPALACHIA II DISTRICT

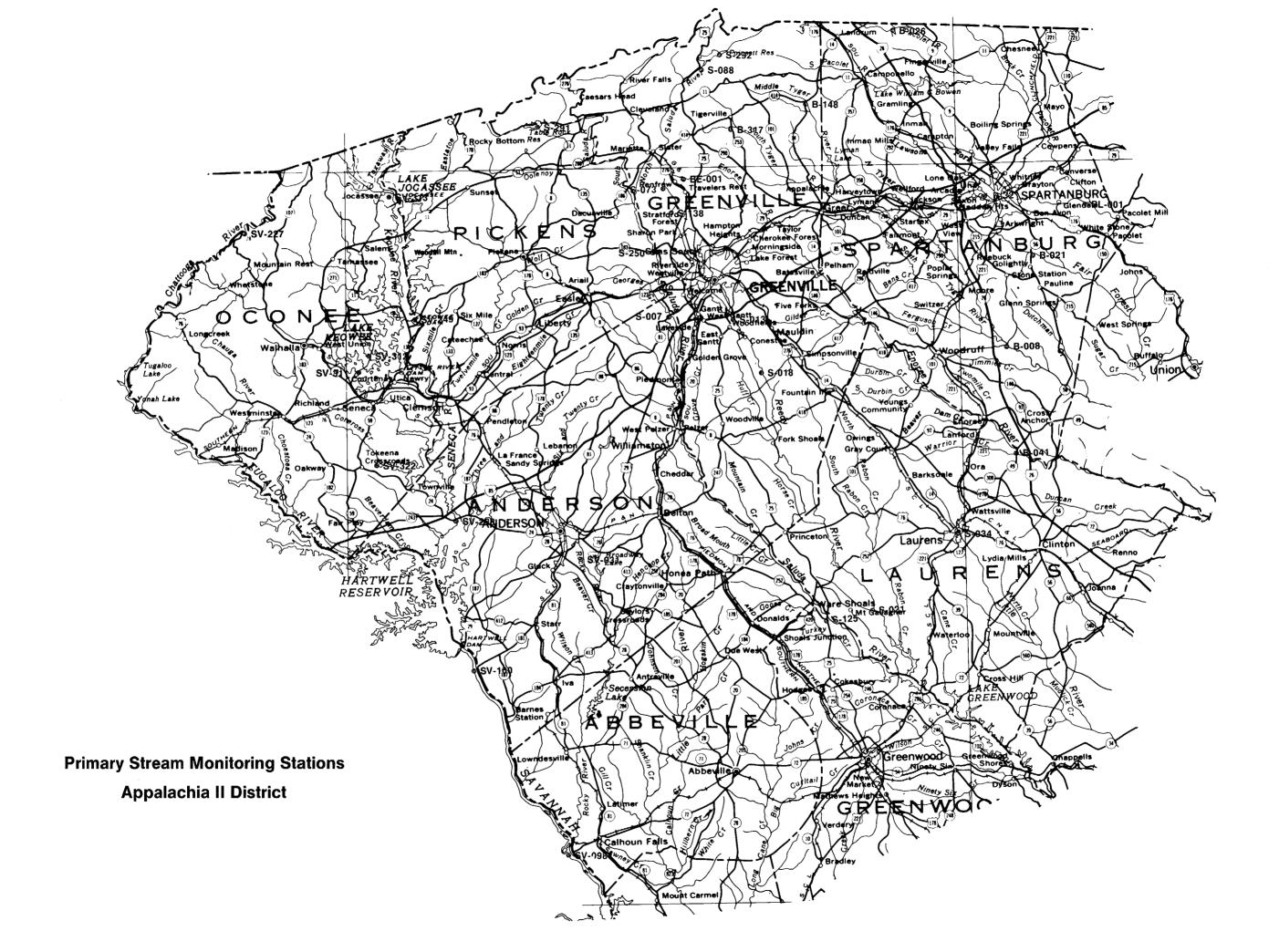
| Station          | Description  | Criteria       | Basin        |
|------------------|--|----------------|--------------|
| B-008<br>B-021   | TYGER RVR AT S-42-50 E. WOODRUFF FAIRFOREST CK AT SC 56 N PACOLET RVR AT S-42-956 6.5 MI E LANDRUM ENOREE RVR AT SC 49 SE OF WOODRUFF MIDDLE TYGER RVR AT SC 14 2 MI SSW GOWANSVILLE S TYGER RVR AT SC 253 BL TIGERVILLE TRIB TO FAIRFOREST CK 200 FT BL S-42-65 TRIB TO FNORFF AT UNNUM RD W US 25 N TRAVELERS REST | 2,4<br>1,6,10  | 0866<br>0864 |
| B-026            | N PACOLET RVR AT S-42-956 6.5 MT F LANDRUM   | 1,0,10         | 0868         |
| B-041            | ENOREE RVR AT SC 49 SE OF WOODRUFF   | 2              | 0862         |
| B-148            | MIDDLE TYGER RVR AT SC 14 2 MI SSW GOWANSVILLE   | 1              | 0866         |
| B-317            | S TYGER RVR AT SC 253 BL TIGERVILLE  | 1              | 0866         |
| B-321            | TRIB TO FAIRFOREST CK 200 FT BL S-42-65  | 6              | 0864         |
| BE-001           | TRIB TO ENOREE AT UNNUM RD W US 25 N TRAVELERS REST  | 1              | 0862         |
| BL-001           | LAWSONS FORK CK AT S-42-108  SALUDA RVR AT SC 81 SW OF GREENVILLE REEDY RVR AT S-23-30 3.9 MI SE GREENVILLE REEDY RVR AT S-23-448 1.75 MI SE CONESTEE REEDY RVR AT S-23-06 E WARE SHOALS LITTLE RVR AT US 76 BUS IN LAURENS ABOVE STP REEDY RVR AT UN# RD OFF US 276 75 MT F   | 6,10           | 0868         |
| S-007<br>S-013   | DEEDA DAD VI & 35 30 3 0 MI SE CDEENAITE   | 1<br>6 7 10    | 0047         |
| S-013<br>S-018   | DEFINY DVR AT S-23-30 3.9 MI SE GREENVILLE   | 6 7 10         | 0846         |
| S-021            | REEDY RVR AT S-23-440 1.75 HT SE CONLESTEE   | 2              | 0846         |
| S-034            | LITTLE RVR AT US 76 BUS IN LAURENS ABOVE STP   | 6,9            | 0842         |
| S-073            | RELD! NAME AT ONE NO OIL OF ELO 110 III E  |                |              |
|                  |  | 1              |              |
| S-088            | N SALUDA RVR AT S-23-42 5.2 MI NNW TIGERVILLE  | 1,12           | 0848         |
| S-125            |  | 2,16           | 0844         |
| S-138            |  | c              | 0046         |
| S-250            | SW TRVLS REST SALUDA RVR AT FARRS BRDG ON SC 183 7 MI NE EASLEY TABLE ROCK RESERVOIR AT WATER INTAKE NORTH SALUDA RESERVOIR AT WATER INTAKE  | 6              | 0846<br>0848 |
| S-291            | TABLE ROCK RESERVOIR AT WATER INTAKE   | 15             | 0848         |
| S-292            | NORTH SALUDA RESERVOIR AT WATER INTAKE   | 15             | 0848         |
| S-296            | LAKE RABON 300 FT US OF DAM  | 8              | 0844         |
| SV-031           | ROCKY RVR AT S-04-263 2.7 MI SE ANDERSON AT STP  | 10             | 0131         |
| SV-098           | LAKE RICHARD B. RUSSELL AT SC 72 3.1 MI SW   |                |              |
|                  | CALHOUN FALLS  | 8,15           |              |
| SV-100           |  | 1,3            | 1310         |
| SV-121<br>SV-122 | LK SECESSION AT HWY 184<br>DAM AT LK SECESSION   | 8 <sup>°</sup> | 1310         |
| SV-122<br>SV-227 | N FORK CHATTOOGA RVR AT SC 28 3.5 MI NW MT REST  | 0 1 2          | 1310<br>1312 |
| SV-230           | BIG EASTATOE CREEK AT S-39-143   | 17             | 1312         |
| SV-249           | SENECA RVR AT SC 183 3 8 MT WSW STY MILE   | A S            | 1312         |
| SV-288           | HARTWELL RESERVOIR AT SC 24 9.7 MT WNW OF ANDERSON   | 8              | 1312         |
| SV-311           | LK KEOWEE AT SC 188 - CANE CK ARM 3.5 MI NW SENECA   | 8              | 1314         |
| SV-312           |  | 8              | 1314         |
| SV-313           |  | 8              | 1312         |
| SV-322           | HARTWELL RES AT S-37-54 (CONEROSS CK ARM)  | 8,10           | 1312         |

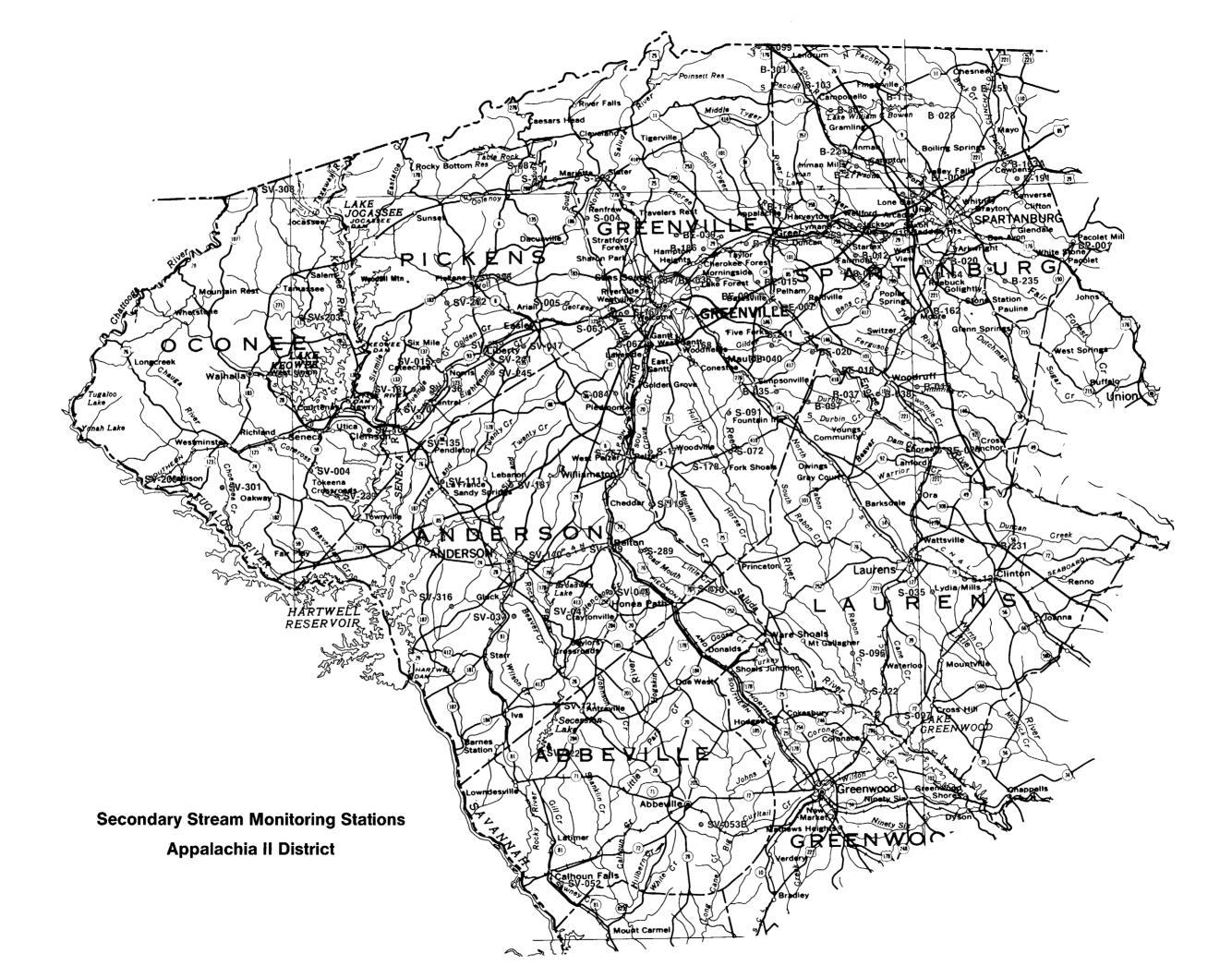
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|--|--|
| 7 = Water Quality limited area<br>8 = Major lake   | <pre>15 = Above a water intake 16 = Basic Water Monitoring Program 17 = Other</pre>  |

# STREAM STATIONS FOR GREENVILLE - SECONDARY APPALACHIA II DISTRICT

| <u>Station</u> | Description  | Criteria | Basin |
|----------------|--|----------|-------|
| B-005          | SOUTH TYGER RVR AT S-42-63                         | 10       | 0866  |
| B-012          | MIDDLE TYGER RVR AT S-42-63                        | 6        | 0866  |
| B-019          | JIMMIES CK AT S-42-201 2 MI E OF WOODRUFF          | 10       | 0866  |
| B-020          | FAIRFOREST CK AT US 221 S OF SPARTANBURG           |          | 0864  |
| B-028          | PACOLET RVR AT S-42-55 BL JCT OF N & S PACOLET R   | 6<br>4   | 0868  |
| B-035          | BIG DURBIN CK ON S-42-160 3 MI E OF SIMPSONVILLE   | 10       | 0862  |
| B-037          | ENOREE RVR AT S-42-118 SW OF WOODRUFF              | 7        | 0862  |
| B-038          | MILL CK AT S-42-118 1 1/4 MI SW WOODRUFF           | 10       | 0862  |
| B-097          | DURBIN CREEK AT SC 418                             | 10       | 0862  |
| B-099A         | ON # 1 INLET LK LANIER IN GREENVILLE CO            | 8<br>8   | 0868  |
| B-099B         | AT DAM LK LANIER IN GREENVILLE CO                  | 8        | 0868  |
| B-103          | SPIVEY CK AT S-42-208 2.5 MI SSE OF LANDRUM        | 10       | 0868  |
| B-113          | RT BK OF DAM AT BOWEN LK ON RD S-42-213 NE         | _        |       |
|                | OF INMAN   | 8        | 0868  |
| B-149          |  | 8,12     | 0866  |
| B-162          |  | 4        | 0866  |
| B-163A         | PACOLET RVR AT BRDG ON S-42-757 2.9 MI NW          | 6 10     | 0000  |
| D 164          | OF COWPENS FAIRFOREST CK AT S-42-651 3.5 MI SSE OF | 6,10     | 0868  |
| B-164          | SPARTANBURG  | 6,10     | 0864  |
| B-186          | MOUNTAIN CK AT S-23-335                            | 6        | 0862  |
| B-191          | POTTER BR ON RD 30 BL OUTFALL FROM HOUSING         | U        | 0002  |
| D-191          | PROJ COWPENS                                       | 10       | 0868  |
| B-192          | PRINCESS CREEK AT COUNTY ROAD 540                  |          | 0862  |
| B-219          | N TYGER RVR AT US 29 7.2 MI W OF SPARTANBURG       | 6<br>5   | 0866  |
| B-221          | LAWSONS FK CK AT S-42-40 BL INMAN MILL EFF         | 6        | 0868  |
| B-231          | BEARDS CK AT US 276 3.7 MI NNE OF CLINTON          | 6,10     | 0860  |
| B-235          | KELSEY CK AT S-42-321                              | 6        | 0864  |
| B-241          | GILDERS CK AT S-23-142 2.75 MI ENE OF MAULDIN      | 10       | 0862  |
| B-242          | TRIB TO FAIRFOREST CK 50 FT AB S-42-65 4 MI        |          |       |
|                | NW OF SPARTANBURG                                  | 6        | 0862  |
| B-259          | LITTLE BUCK CK AT UN# CO RD 2.3 MI SW OF CHESNEE   | 6,10     | 0868  |
| B-263          | S TYGER RVR AT SC 290 3.7 MI E OF GREER            | 10       | 0866  |
| B-277          | LAWSONS FORK CK AT S-42-218 2.7 MI SSE OF INMAN    | 5,10     | 0868  |
| B-278          | LAWSONS FORK CK AT UN# RD BL MILLIKEN CHEM         | 6        | 0868  |

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|---|--|
| 8 = Major lake  | 16 = Basic Water Monitoring Program<br>17 = Other  |





# STREAM STATIONS FOR GREENVILLE - SECONDARY APPALACHIA II DISTRICT

| <u>Station</u>   | Description  | Criteria     | Basin        |
|------------------|--|--------------|--------------|
| B-301<br>B-302   | PAGE CK AT S-42-1258 1.7 MI SE LANDRUM<br>HEADWTR OF BOWEN LK AT S-42-866 1 MI SE      | 10           | 0868         |
| В-302            | CAMPOBELLO TRIB TO N TYGER RVR AT UN# RD BL JACKSON #2 EFF                             | 6,8<br>6     | 0868<br>0866 |
| BE-007           | ROCKY CK AT BRDG IN BATESVILLE 1 MI AB JCT WITH ENOREE                                 | 6,10         | 0862         |
| BE-009           | BRUSHY CK AT S-23-164  | 10,11        | 0862         |
| BE-015<br>BE-018 | ENOREE RVR AT CO RD 164<br>ENOREE RVR AT SC 75   | 6,10<br>6,10 | 0862<br>0862 |
| BE-020           | HORSE PEN CK AT BRDG 1/4 MI AB JCT WITH  | 10           | 0862         |
| BE-024           | ENOREE RVR ON RD 143<br>ENOREE RVR AT US 221   | 10           | 0862         |
| BE-035           | BRUSHY CK AT HOWELL RD (UN#) APPROX 5 MI NE OF GREENVILLE                              | 7            | 0862         |
| BE-039           | BEAVERDAM CK AT RD 1967  | 10           | 0862         |
| BE-040<br>BL-005 | GILDER CK AT SC 14-AB GILDER CK PT<br>LAWSONS FORK CK AT S-42-79 AT VALLEY FALLS       | 6,10<br>6    | 0862<br>0868 |
| BP-001<br>S-004  | PACOLET RVR AB DAM AT PACOLET MILLS<br>N SALUDA RVR AT BRDG AB JCT WITH SALUDA RVR     | 6,10         | 0868         |
|                  | E OF SC 186  | 14           | 0847         |
| S-005<br>S-010   | BR OF GEORGES CK AT S-39-192, 2.6 MI NE EASLEY BROAD MOUTH CK AT US 76                 | 10<br>10     | 0847<br>0847 |
| S-022            | REEDY FORK OF LK GREENWOOD AT S-30-29  | 8            | 0844         |
| S-035<br>S-063   | LITTLE RVR AT S-30-37 SE OF LAURENS<br>GEORGES CK AT US 123A - EASLEY                  | 6,10<br>6,10 | 0842<br>0847 |
| S-067            | BRUSHY CK ON GREEN ST EXT BL DUNEAN MILL   | ,            |              |
| S-072            | ON SC 20<br>REEDY RVR ON HWY 418 AT FORK SHOALS  | 6<br>7       | 0846<br>0846 |
| S-084            | BRUSHY CK AT S-04-52 8.3 MI N WILLIAMSTON  | 10           | 0847         |
| S-087            | SOUTH SALUDA RIVER AT CO RD 101  | 14,17        | 0848         |
| S-091<br>S-096   | ROCK CK AT S-23-453 3.5 MI SW OF SIMPSONVILLE RABON CK AT S-30-54 8.8 MI NW CROSS HILL | 10<br>14,17  | 0846<br>0844 |
| S-097            | CANE CK AT SC 72 3.1 MI SW CROSS HILL  | 8,14         | 0844         |
| S-119            | SALUDA RVR AT S-04-178 3.2 MI SE WILLIAMSTON   | 10           | 0847         |
| S-135            | NORTH CK AT JCT WITH US 76 2.8 MI W OF CLINTON   | 7            | 0842         |
| S-161            | TRIB TO SALUDA RVR ON DURHAM ST BL CAROLINA PLATING                                    | 6            | 0847         |
| S-168            | LAUREL CK AT US 276 BELOW FIBER IND  | 6            | 0846         |
| S-171            | GROVE CK AT UN# RD BELOW J P STEVENS ESTES PLANT                                       | 6            | 0847         |
| S-178            | HUFF CK AT SC 418 1.6 MI NW FORK SHOALS  | 6            | 0846         |
| S-231            | SPAIN CK AT SC 288 BELOW GAYLEY MILLS  | 6            | 0848         |
| S-252            | MIDDLE SALUDA RVR AT SC 288 2.3 MI WSW SLATER  | 11,14        | 0848         |
| S-264<br>S-267   | LANGSTON CK AT SC 253  | 6            | 0846         |
|                  | TRIB TO SALUDA RVR 350 FT BL W PELZER STP ON S-23-53                                   | 10           | 0847         |
| S-289            | BROAD MOUTH CK AT S-04-267 - BL BELTONS MARSHALL PLANT                                 | 10           | 0847         |
| SV-004           | CONEROSS CK AT SC 59   | 10           | 1312         |

## STREAM STATIONS FOR GREENVILLE - SECONDARY APPALACHIA II DISTRICT

| Station | Description  | Criteria | Basin |
|---------|--|----------|-------|
| SV-015  | TWELVE MI CK AT S-39-51 N OF NORRIS                | 15       | 1312  |
| SV-017  | 18 MI CK AT UNNUMBERED CO RD 2.25 MI SSW OF EASLEY | 10       | 1312  |
| SV-037  | BETSY CK AT S-04-259 BL FIBERGLAS OUTFALL          | 6        | 1310  |
| SV-041  | ROCKY RVR AT S-04-152 BL ROCKY RVR STP             | 10       | 1310  |
| SV-043  | CHEROKEE CK AT S-04-318 4 MI S OF BELTON           | 10       | 1310  |
| SV-052  | SAWNEY CK AT CO RD 1.5 MI SE OF CALHOUN FALLS      | 10       | 1308  |
| SV-053B | BLUE HILL CK ON S MAIN ST ABBEVILLE                | 6        | 1308  |
| SV-106  | MARTIN CK AT S-37-65 N OF CLEMSON                  | 8,10     | 1312  |
| SV-107  | TWELVE MI CK AT SC 133                             | 6,8      | 1312  |
| SV-111  | THREE & TWENTY CREEK AT CO RD 280                  | 6        | 1312  |
| SV-135  | 18 MI CK AT S-39-93 SW OF CENTRAL                  | 6,10     | 1312  |
| SV-136  | FIRST CK AFTER LEAVING CENTRAL AT CLVT ON          | ·        |       |
|         | · MAW BRDG RD                                      | 10       | 1312  |
| SV-137  | 12 MI CK AT S-39-337                               | 6        | 1312  |
| SV-139  | CUPBOARD CK AB BREAZEALE ST PLANT & BL BLAIR HILL  |          |       |
|         | AT S-04-733  | 6        | 1310  |
| SV-140  | CUPBOARD CK AT S-04-209 BL EFF FROM BELTON         |          |       |
|         | 2 PLANT  | 6,10     | 1310  |
| SV-141  | BROADWAY CK AT US 76 BTWN ANDERSON & BELTON        | 14       | 1310  |
| SV-181  | 6 & 20 CK AT S-41-29 8.2 MI SE OF PENDLETON        | 14       | 1312  |
| SV-200  | TUGALOO RVR AT US 123 7.0 MI SW OF WESTMINSTER     | 3,8      | 1312  |
| SV-203  | LITTLE RVR AT S-37-24 7.1 MI NE OF WALHALLA        | . 17     | 1314  |
| SV-206  | N FORK 12 MI CK AT US 178 2.9 MI N OF PICKENS      | 9<br>8   | 1312  |
| SV-236  | H'WELL RESERVOIR AT S-37-184 6.5 MI SSE OF SENECA  | 8        | 1312  |
| SV-239  | GOLDEN CK AT S-37-222 1.2 MI NW OF LIBERTY         | 10       | 1312  |
| SV-241  | WOODSIDE BR AT US 123 1.5 MI E OF LIBERTY          | 10       | 1312  |
| SV-245  | 18 MI CK AT S-39-27 3.3 MI S OF LIBERTY            | 6,10     | 1312  |
| SV-282  | 12 MI CK AT S-39-273 2.8 MI SSW OF PICKENS         | 6,10     | 1312  |
| SV-301  | NORRIS CK AT S-37-435 1 MI S OF WESTMINSTER        | 10       | 1312  |
| SV-303  | LK KEOWEE AT HEADWTR AT END OF S-37-202            |          |       |
| CIV 600 | 1.5 MI SE OF W UNION                               | 10       | 1314  |
| SV-308  | E FK OF CHATTOOGA RVR AT SC 107 2 MI S OF ST LINE  | 3        | 1312  |
| SV-316  | BIG GENEROSTEE CK AT CO RD 104                     | 10       | 1310  |

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|--|--|
| 6 = Below a major industrial area<br>7 = Water Quality limited area<br>8 = Major lake  | <pre>14 = Below major land use area 15 = Above a water intake 16 = Basic Water Monitoring Program 17 = Other</pre>   |

#### STREAM STATIONS FOR LANCASTER - PRIMARY CATAWBA DISTRICT

| <u>Station</u>  | Description   | Criteria  | Basin        |
|-----------------|---|-----------|--------------|
| B-042<br>B-044  | BROAD RVR AT SC 18 4 MI NE GAFFNEY BROAD RVR AT SC 211 12 MI SE OF GAFFNEY        | 1 2       | 0856<br>0856 |
| B-046           | BROAD RVR AT SC 72/215/121 3 MI E OF CARLISLE                                     | 2,16      | 0854         |
| B-048           | PACOLET RVR AT SC 105 6 MI AB JCT WITH BROAD RVR                                  | 2,11      | 0868         |
| B-051<br>CW-002 | TYGER RVR AT SC 72 5.5 MI SW OF CARLISLE ROCKY CK AT S-12-335 3.5 MI E OF CHESTER | 2         | 0864<br>0832 |
| CW-002          | FISHING CK AT SC 223 NE RICHBURG  | 6,10<br>7 | 0832         |
| CW-013          | SUGAR CK AT SC 160 E OF FORT MILL   | 7         | 0836         |
| CW-016          | CATAWBA RVR AT SC 9 AT FT LAWN  | ,<br>2,16 | 0834         |
| CW-016F         | FISHING CK RES 2 MI BL CANE CREEK   | 5,8       | 0832         |
| CW-023          | CROWDERS CK AT S-46-564 NE CLOVER   | 7         | 0836         |
| CW-029          | FISHING CK AT SC 49 NE YORK   | 1,5,6     |              |
| CW-041          | CATAWBA RVR AT SC 5 AB BOWATER  | 1,2,5     | 0836         |
| CW-057          | FISHING CK RES 75 FT AB DAM NR GREAT FALLS  | 5,8       | 0832         |
| CW-152          | CROWDERS CK AT US 321 0.5 MI N OF NC ST LINE                                      | 6         | 0836         |
| CW-176          | SIX MILE CREEK AT S-29-54   | 17        | 0836         |
| CW-197          | LAKE WYLIE AB MILL CK ARM AT END OF S-46-557                                      | 1,8       | 0836         |
| CW-198          | LAKE WYLIE AT CROWDERS CK ARM   | 8         | 0836         |
| CW-201          | LY WYLIE N LAKEWOODS S/D AT EBENEZER ACCESS                                       |           | 0836         |
| CW-226          | MCALPINE CREEK AT US 521, NC  | 10        | 0836         |
| PD-004          | BLACK CK AT S-13-43 1 MI NE NICEY GROVE   | 1         | 0725         |
| PD-006          | LITTLE LYNCHES RVR AT US 601 2 MI NE KERSHAW                                      | 1         | 0732         |
| PD-080          | LYNCHES RVR AT S-28-15 4.5 MI SE BETHUNE  | 1,4       | 0730         |
| PD-113          | LYNCHES RVR AT SC 9 W OF PAGELAND   | 7         | 0734         |
| PD-327          | LK ROBINSON AT S-13-346 5 MI E MCBEE  | 1         | 0725         |

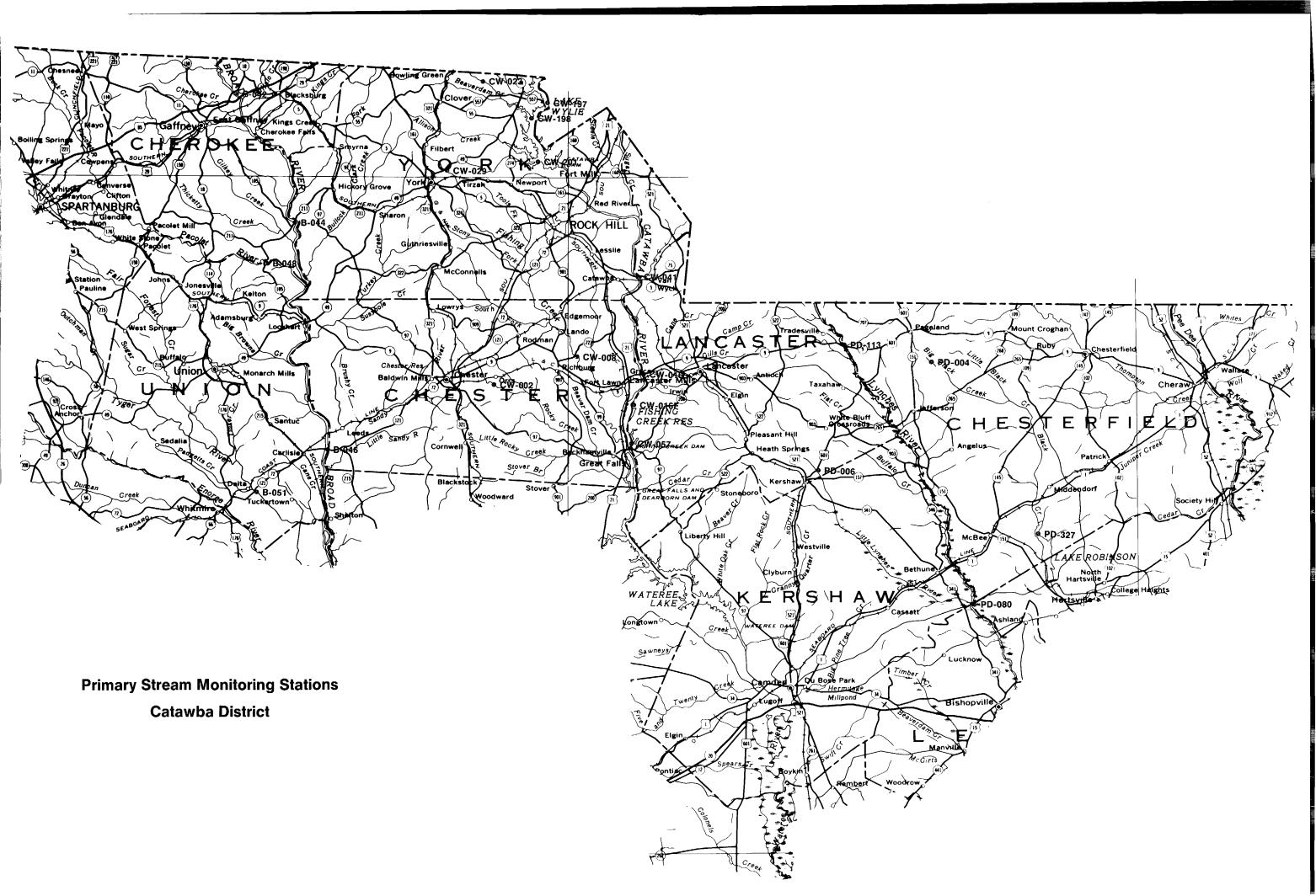
#### Station Selection Criteria

| 1 | = | influent to segment (sub-dasin) |
|---|---|---------------------------------|
| 2 | = | Effluent to segment             |
| 3 | = | Major streams at state lines    |
| Δ | _ | Confluence of major etreame     |

4 = Confluence of major streams

5 = Above a major industrial area 6 = Below a major industrial area 7 = Water Quality limited area 8 = Major lake

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## STREAM STATIONS FOR LANCASTER - SECONDARY CATAWBA DISTRICT

| Station_ | Description                                       | Criteria | <u>Basin</u> |
|----------|---|----------|--------------|
| B-056    | CHEROKEE CK AT US 29 3 MI E OF GAFFNEY            | 10       | 0856         |
| B-057    | BUFFALO CK AT SC 5 1 MI W OF BLACKSBURG           | 5        | 0856         |
| B-059    | IRENE (BEAVERDAM) CK AT S-21-307 2.5 MI W         |          |              |
|          | OF GÀFFNEY  | 10       | 0856         |
| B-062    | THICKETTY CK AT SC 211 2 MI AB JCT WITH BROAD RVR | 10,11    | 0856         |
| B-064    | MENG CK AT SC 49 2.5 MI E OF UNION                | 10       | 0854         |
| B-067A   | TOSCH'S CK AT US 176 2 MI SW OF UNION             | 10       | 0864         |
| B-067B   | TOSCH CK AT RD TO SEWAGE PT OFF HWY S-42-92       |          |              |
|          | SW OF UNION                                       | 9        | 0864         |
| B-074    | DRY FORK CK AT S-12-304 2 MI SW OF CHESTER        | 10       | 0854         |
| B-075    | SANDY RVR AT SC 215 2.5 MI AB JCT WITH BROAD RVR  | 17       | 0854         |
| B-086    | ROSS BR TO TURKEY CK AT SC 49 SW OF YORK          | 10       | 0854         |
| B-088    | CANOE CK AT S-11-245 1/2 MI W OF BLACKSBURG       | 10       | 0856         |
| B-095    | THICKETTY CREEK AT S-11-165                       | 6        | 0856         |
| B-100    | FURNACE CK AT S-11-50 6 MI E OF GAFFNEY           | 10       | 0856         |
| B-119    | BUFFALO CREEK AT S-11-213, 2.2 MI NNW OF          |          |              |
|          | BLACKSBURG  | 15       | 0856         |
| B-128    | LIMESTONE MILL CK AT RD CONNECTING US 29 & SC 1   | 10       | 0856         |
| B-133    | THICKETTY CK AT SC 18 8.3 MI S OF GAFFNEY         | 10       | 0856         |
| B-159    | BULLOCKS CK AT SC 97 4.8 MI S OF HICKORY GROVE    | 17       | 0856         |
| B-199    | MITCHEL CK AT CO RD 233 2.3 MI SSW OF JONESVILLE  | 10       | 0864         |
| B-211    | PEOPLES CK AT UNIMPROVED RD 2.3 MI E OF GAFFNEY   | 9        | 0856         |
| B-243    | TRIB TO BROWNS CK AT CLVT ON CO RD 384 3 MI E     |          |              |
|          | OF UNION  | 17       | 0856         |
| B-286    | TINKER CK AT RD TO STP 1.3 MI SSE OF UNION        | 9        | 0864         |
| B-287    | TINKER CK AT UN# CO RD 1.7 MI SSE OF UNION        | 10       | 0864         |
| B-323    | DOOLITTLE CK AT S-11-100 1.25 MI SE OF BLACKSBURG | 10       | 0856         |
| B-325    | CK INTO CRAWFORD LK ON UN# RD NEAR SC 161 &       |          |              |
|          | 705-KINGS MT                                      | 9        | 0856         |
| B-326    | LONG BR CK ON SC 216 BL KINGS MTN PK REC AREA     | 10       | 0856         |
| B-330    | GUYON MOORE CREEK AT S-46-223                     | 6        | 0856         |
| BF-007   | FAIRFOREST CK ON CO RD 12 SW OF JONESVILLE        | 6        | 0864         |
| BF-008   | FAIRFOREST CK AT CO RD 16 SW OF UNION             | 6,10     | 0864         |
| CW-006   | WILDCAT CK AT S-46-650                            | 10       | 0832         |
| CW-009   | STEEL CK AT S-46-22 N OF FORT MILL                | 7        | 0836         |
| CW-011   | STEEL CK AT S-46-270                              | 10       | 0836         |
|          |   |          |              |

| <pre>1 = Influent to segment (sub-basin)</pre> | 9 = Above major municipal area            |
|--|---|
| 2 = Effluent to segment                        | 10 = Below major municipal area           |
| 3 = Major streams at state lines               | <pre>11 = Mouth of major tributary</pre>  |
| 4 = Confluence of major streams                | 12 = Major water use area                 |
| 5 = Above a major industrial area              | <pre>13 = Above major land use area</pre> |
| 6 = Below a major industrial area              | <pre>14 = Below major land use area</pre> |
| 7 = Water Quality limited area                 | 15 = Above a water intake                 |
| 8 = Major lake                                 | 16 = Basic Water Monitoring Program       |
|  | 17 = Other                                |

# STREAM STATIONS FOR LANCASTER - SECONDARY CATAWBA DISTRICT

| Station | Description                                       | Criteria                | Basin |
|---------|---|-------------------------|-------|
| CW-017  | CANE CK AT S-29-50                                | 6,7                     | 0834  |
| CW-019  | WATEREE RVR AT US 1                               | 10                      | 0828  |
| CW-027  | LK WYLIE AT SC 49 AND SC 274                      | 8                       | 0836  |
| CW-036  | SUGAR CREEK AT S-46-36                            | 6,10                    | 0836  |
| CW-047  | GILLS CK AT US 521 NNW OF LANCASTER               | 7                       | 0834  |
| CW-064  | MCALPINE CK AT S-29-64                            | 10                      | 0836  |
| CW-080  | 25 MI CK AT S-28-05 3.7 MI W OF CAMDEN            | 10                      | 0828  |
| CW-083  | 12 MI CK AT S-29-55 O.3 MI NW OF VAN WYCK         | 6                       | 0836  |
| CW-088  | GRASSY RUN BR AT SC 72 1.6 MI NE CHESTER          | 9                       | 0832  |
| CW-096  | WILDCAT CK AT S-46-998 9 MI ENE OF MCCONNELLS     | 10                      | 0832  |
| CW-105  | BROWN CK AT UNIMP RD 1.2 MI N OF CLOVER BL PLT    |                         | 0836  |
| CW-131  | BEAR CK AT S-29-292 1.6 MI W OF LANCASTER         | 7                       | 0834  |
| CW-134  | CALABASH BR AT S-46-414 2.5 MI SE OF CLOVER       | 10                      | 0836  |
| CW-151  | BEAR CK AT S-29-362 3.5 MI SE OF LANCASTER        |                         | 0834  |
| CW-153  | BEAVER DAM CK AT S-46-152 8 MI E OF CLOVER        | 6                       | 0836  |
| CW-154  | KELLY CK AT S-28-367 2.9 MI SE OF ELGIN           | 5                       | 0826  |
| CW-155  | SPEARS CK AT SC 12 3.6 MI SE OF ELGIN             | <b>5</b><br>6<br>5<br>6 | 0826  |
| CW-171  | ALLISON CK AT US 321 3.1 MI S OF CLOVER           | 6,10                    | 0836  |
| CW-174  | CATAWBA RVR AT UNIMP RD AB JCT WITH ROCKY CK      | 6                       | 0832  |
| CW-175  | ROCKY CK AT S-12-141 SE OF GREAT FALLS            | 12                      | 0832  |
| CW-185  | CANE CK AT SC 200 5 MI NNE OF LANCASTER           |                         | 0834  |
| CW-192  | CROWDERS CK AT S-46-79 4.5 MI NW OF CLOVER        | 7<br>7<br>8<br>7        | 0836  |
| CW-200  | LK WYLIE AT SC 274 9 MI NE OF YORK                | 8                       | 0836  |
| CW-212  | TOOLS FORK CK AT S-46-195 7 MI NW OF ROCK HILL    | 7                       | 0832  |
| CW-213  | BIG PINE TREE CK AT I-20                          | 6<br>6                  | 0828  |
| CW-214  | WATEREE RVR AT I-20                               | 6                       | 0828  |
| CW-221  | UNNAMED TRIB TO CATAWBA RVR AT HWY 161            | -                       |       |
|         | 0.4 MI W OF I-77                                  | 10                      | 0836  |
| CW-223  | LITTLE PINE TREE CREEK AT S-28-132                | 15                      | 0828  |
| CW-224  | FISHING CREEK AT S-46-163                         | 6                       | 0832  |
| CW-225  | FISHING CREEK AT S-46-503                         | 5                       | 0832  |
| CW-227  | NEELY'S CREEK AT 2-46-997                         | 10                      | 0832  |
| PD-005  | TODD'S BR AT S-29-564 1.5 MI NE OF KERSHAW        | 6<br>6                  | 0732  |
| PD-009  | LYNCHES RVR AT US 1                               | 6                       | 0734  |
| PD-066  | LYNCHES RVR AT S-28-42                            | 17                      | 0734  |
| PD-067  | FORK CK AT SC 151                                 | 6                       | 0734  |
| PD-068  | FORK CK AT UN# RD 1.5 MI SW JEFFERSON             | 6                       | 0734  |
| PD-152  | THOMPSON CK AT US 1 2.2 MI SW OF CHERAW           | 6                       | 0726  |
| PD-179  | N BR WILDCAT CK AT S-29-39 1 MI S OF TRADESVILLE  | 7                       | 0734  |
| PD-180  | S BR WILDCAT CK AT S-29-39 2 MI S OF TRADESVILLE  | 7                       | 0734  |
| PD-215  | LITTLE FORK CK AT S-13-265 1.5 MI SW JEFFERSON    | 10                      | 0734  |
| PD-246  | THOMPSON CK AT S-13-243 O.8 MI NE OF CHESTERFIELD | 17                      | 0726  |
| PD-247  | THOMPSON CK AT SC 9 1.5 MI ESE OF CHESTERFIELD    | 10                      | 0726  |
| PD-250  | TRIB TO BIG BLACK CK AT S-13-54 SE PAGELAND       | 10                      | 0725  |
| PD-333  | HILLS CREEK AT S-13-105                           | 6                       | 0734  |
| PD-334  | MINE BRANCH AT S-29-188                           | 6                       | 0732  |
| PD-335  | LITTLE LYNCHES CREEK AT S-29-95                   | 10                      | 0732  |
| PD-328  | TRIB TO HANGING ROCK CK OFF S-29-84 1.6 MI        | •                       | •     |
|         | S OF KERSHAW                                      | 10                      | 0732  |
| PD-329  | TRIB TO HANGING ROCK CK AT S-29-13 ABOVE          |                         |       |
|         | KERSHAW PT  | 9                       | 0732  |
|         |   |                         |       |

#### APPENDIX B

PRIMARY AND SECONDARY STATIONS LISTED BY REGION
SHOWING INDIVIDUAL PARAMETER COVERAGE

| Station<br>No. | <br> Temp<br>                                | <br>  DO<br>                                    | <br>  pH<br>     | <br> Salt<br>                                 | <br> Condt<br> | <br>  TSS<br> <br> | <br> Turb      | <br> Color <br> | Trans      | Alkl | <br> Hard     | BOD <sub>5</sub> | <br>  NH<br>  NH <sub>4</sub> | <br>  NO <sub>2</sub><br>  NO <sub>3</sub>         | <br> TKN<br>  | ΤP             | <br> TOC<br>                                  | <br>  cl<br>  | Phen              | <br> Metals<br> | <br> Pest<br> PCBs<br>                       | <br>  Other<br>  Org*<br> | <br>  Total<br>  Coli | <br>  Fecal<br>  Coli<br> | <br> Flow<br> | <br>  Sed<br>                                | <br>  Sed  <br>  Org* |
|----------------|--|---|------------------|---|----------------|--------------------|----------------|-----------------|------------|------|---------------|------------------|-------------------------------|--|---------------|----------------|---|---------------|-------------------|-----------------|--|---------------------------|-----------------------|---------------------------|---------------|--|-----------------------|
| CSTL-001B      | <br>  M                                      | <br>  M   | M                | <br>  | <br>           | l ,                | M              | <br>            |            |      | <br>          | М                | <br>                          | <br>  M  | <br>          | M              |   | <br> <br>     | <br>              | l .<br>L        | l<br>L                                       |                           | <br>                  | <br>  M                   | ]<br>[        | <u> </u>                                     |                       |
| CSTL-003       | <br>  M                                      | <br>  M_  | -<br>  <u>M</u>  | <br>  | <br>           | 1<br>              | <br>  <u>M</u> | [<br>           | <br>       | М    | A             | М                | [<br><u>  M</u>               | [<br>  <u>M</u> _                                  | <br>  M       | <u> </u>       | <br>  Q                                       | ł<br>L        |                   | [<br>_ Q        | !<br>  | <br>                      | <br>                  | <br>  M                   | <br>  M_      | <u> </u>                                     | <u> </u>              |
| CSTL-005       | <br>  M                                      | <br>  M   | <br>  M          | <br>  | !<br>!         | <br>               | <u> </u>       | <u> </u>        | <br>       |      | <br>          | М                | l<br>I                        | <br>  <u> </u>                                     | <br>          | M              | <br>  | <br>          | ļ                 | l<br>L          | <br>   | <br>                      | l<br>L                | <br>  <u>M</u>            | Ï<br>         | l .  | <br>                  |
| CSTL-012       | M  | <br>  <u>                                  </u> | <br>  M          | <br>  | <br>           | <br>               | <br>  <u>M</u> | <br>            | <br>       | М    | A             | <u> </u>         | <br>  M                       | <br>  M  | <br>  M       | M              | <br>  Q                                       | <br>          | <u> </u>          | <br>  <u>0</u>  | <u> </u>                                     | <br>                      | <br>                  | <br>  M                   | <br>  M       | <br>  _A                                     | <br>                  |
| CSTL-028       | <br>  M                                      | <br>  M_  | <br>  M          | <br>  | l<br>L         | <br><u> </u>       | <u> </u>       | <u> </u>        | <br>       | М    | A             | М                | <br>  <u>M</u>                | <br>  <u> </u>                                     | <br>  M       | <br>  <u>M</u> | <br>  0                                       | !<br>!        | <br>              | <br>  <u> </u>  | <br>   | <br>                      | l<br><u> </u>         | <br>  м                   | ]<br>] м      | 1<br><u>1 A</u>                              | <u> </u>              |
| CSTL-037       | <br>  M                                      | <br>  M   | <br>  <u>  M</u> | !<br>!  | !<br>!         | l ·<br><u>L</u>    | <br>  <u>M</u> | <u> </u>        | <br>       |      |               | М                | <br>                          | !<br>  <u>M</u>                                    | !<br>         | М              | <u> </u>                                      | !<br>!        | <u> </u>          | !<br>!          | !<br><del>!</del>                            | <u> </u>                  | <u> </u>              | <br>  M                   | !<br>!        | !<br>!                                       | <u> </u>              |
| E-001          | <br>  M                                      | <br>  M   | <br>  M          | <br>  | <br>           | <u> </u>           | <u> </u>       | <u> </u>        | <br>       |      |               | М                | <u> </u>                      | I<br><u>М</u>                                      | <br>          | <br>  <u>M</u> | <u> </u>                                      | I<br><u>L</u> |                   | !<br>           | <u> </u>                                     | <u> </u>                  | <u> </u><br>          | <br>  M                   | <u> </u>      | <u>.                                    </u> | <u> </u>              |
| E-002          | <br>  M                                      | <br>  M   | <br>  M          | <u> </u><br>                                  | <br>           | <br>               | <br>  <u>M</u> |                 | <br>       |      | <br>          | м                | !<br>!                        | 1<br>  <u>M</u>                                    | !<br>         | М              | <u> </u>                                      | <u> </u>      |                   | !<br>           | <u> </u>                                     | !<br>!                    | !<br><u>L</u>         | <br>  <u>M</u>            | <u> </u>      | <u> </u>                                     |                       |
| E-007          | M  | /<br>  M<br>                                    | !<br>  M<br>     | /<br>   | /<br> <br>     | !<br>              | <u>М</u>       | <u> </u>        | !          |      | ! !<br>  <br> | М                | !<br>L                        | )<br>  M   | !<br>         | <u> </u>       | <u> </u>                                      | !<br><u> </u> | <u> </u><br>      | ;<br>           | !<br>  | ,<br>                     | !<br>!                | ]<br>] M                  | !<br>         | !<br>  | <u> </u>              |
| E-007A         | <br>  M<br>                                  | ]<br>  M<br>                                    | <br>  M<br>      |   | !<br>          | !<br>!             | M              | !<br>           |            |      |               | М                | !<br>!<br>!                   | !<br>  <u>                                    </u> | 1<br><u> </u> | М              | <u> </u>                                      | <u> </u>      |                   | !<br>!          | <u> </u>                                     | !<br>                     | 1<br>                 | <br>  M                   | <u> </u>      | A .  |                       |
| Е-007В         | <u>м</u>                                     | <u>  м</u><br>                                  | <br>  M<br>      | <u> </u>                                      | !<br>!<br>!    | <u> </u><br>       | <u> </u>       | <u> </u>        |            |      |               | М                | <u> </u><br>                  | <br>  <u>M</u><br>                                 | <u> </u><br>  | M              | !<br> <br>                                    | !<br><u> </u> | <br>  <del></del> | <u> </u>        | <u> </u>                                     | !<br>                     | !<br> <br>            | <br>  <u>M</u><br>        | <u> </u><br>  | <u></u>                                      | <u></u>               |
| E-007C         | <u>  M</u>                                   | <u>  M</u>                                      | м<br>            | <u> </u>                                      | <u> </u><br>   | <br>               | M              |                 | <br>  <br> |      |               | M                | <u> </u><br>                  | <u> </u>   | <u> </u><br>  | M              | <u> </u><br>                                  | <u> </u><br>  |                   | <u> </u><br>    | <u>.                                    </u> | <u> </u><br>              | <u> </u><br>          | <u> </u><br>  M           | <u> </u>      | <u> </u>                                     |                       |
| E-008          | <u>                                     </u> | M   | <u>і м</u><br>І  | <u>i                                     </u> | M              | м<br>              | M              | <br>            |            | M    | _ A _         | М                | м<br>                         | <br>  <u>M</u><br>                                 | м<br>         | M              | м<br>   |               |                   | <u> </u>        | <br>  A<br>                                  | <br>  <u>A</u><br>        | <u> </u><br>          | <u> </u><br>  м           | <u>і</u> м_   | Α_   | I A                   |
| E-012          | <u>м</u>                                     | M   | <u>  M</u>       | <u>i                                     </u> | <u></u>        | !                  | <u> </u>       |                 | <u> </u>   |      |               | М                | <br>                          | <u>М</u> _   | <u></u>       | M              | <u>i                                     </u> | <u>.</u><br>  | <u> </u>          | <u> </u><br>    | <u> </u>                                     | I                         | <br>                  | <u>  M</u><br>            | <u>i</u><br>I | <u>i</u>                                     |                       |
| E-013          | <u>i</u> m                                   | M   | M                | <u>i</u>                                      | İ              |                    | M              | لــــــا        | اًاً       | М    | A             | М                | М                             | <u> </u>   | M             | М              | Q   | <u> </u>      |                   | <u>.</u>        | <u>i a</u>                                   | <u> </u>                  | L                     | <u>M</u>                  | M             | A  | <u> </u>              |

M = monthly, Q = quarterly, A = annually

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

= dissolved oxygen

= total suspended solids TSS

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

= total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics = chlorides

рΗ #q = Trans = transparency

Alk = alkalinity

= total phosphorus

TOC = total organic carbon

 $\begin{array}{l} \text{NH}_{3} \quad \text{NH}_{4} = \text{ammonia} \\ \text{NO}_{2} \quad \text{NO}_{3} = \text{nitrate-nitrite} \end{array}$ 

Sed = sediment (routine)

Sed Org = sediment organics

Metals = heavy metals

Fecal Coli = fecal coliform

Total Coli = total coliform  $BOD_5 = 5$ -day biochemical

oxygen demand

| Station<br>No. | Temp           | DO<br>  | pH<br>  | Salt   | Condt<br>    | TSS      | Turb<br> <br>                                    | Color<br> <br> | Trans  | Alkl     | Hard <br>        | BOD <sub>5</sub> | NH<br>3<br>  NH<br>4 | NO <sub>2</sub><br>  NO <sub>3</sub> | TKN<br>        | TP<br>         | TOC<br> <br>     | i cl<br>l     | Phen          | Metals<br> <br>                                   | Pest<br> PCBs                                       | Other        | Total<br>  Coli   | Fecal<br>  Coli  | •          | Sed         | Sed<br>  Org             |
|----------------|----------------|---|---|--|--------------|----------|--|----------------|--------|----------|------------------|------------------|----------------------|--------------------------------------|----------------|----------------|------------------|---------------|---------------|---|---|--------------|-------------------|------------------|------------|-------------|--------------------------|
| E-019          | <br>  M        | <br>  M   | <br>  M   | <br>   | <br>         | <br>     | <br>  M  | <br>           | <br>   |          |                  | М                | <br>                 | <br>  M_                             | <br>           | <br>  M        | <br>             | <br>          | <br>          | l<br>L  | l<br>L  | <br>         | !<br>!            | <br>  M          | <br>       | <u> </u>    | <br>                     |
| E-022          | <br>  M        | <br>  M   | <br>  M   | l .<br><u>L                                     </u> | <br>         | <u> </u> | <br>  M  | [<br>          | <br>   |          |                  | М                | <br>                 | <br>  M                              | <br>           | <br>  M        | <br>             | <br>          | <br>          | <br>  | l '<br>L  | <u> </u>     | <br>              | <br>  <u>M</u>   | <br>       | <u> </u>    | <br>                     |
| E-036          | <br>  M        | <br>  M   | <br>  <u>M</u>                                    | <br>   | ]<br>]       |          | <br>  M  | <u> </u>       | <br>   |          | <br>             | М                | l<br>L               | <br>  <u> </u>                       | <br>           | <br>  M        | <br>             | <br>          | l<br>L        | <br>  | <br>  | <br>         | l<br>I            | <br> M           | <u> </u>   |             | <u> </u><br>             |
| E-051          | <br>  <u>M</u> | <br>  M   | <br>  M   | <br>   | <u> </u>     |          | M  | <u> </u>       | <br> l | М        | A                | М                | <u> </u>             | M                                    | <br>  <u> </u> | <br>  M        | 0                | !<br>!        | !<br>!        | <br>  0   | <br>  | <br>         | <u> </u>          | <br>  <u> </u>   | М          |             | <br>                     |
| E-059          | <br>  M        | <br>  M   | <br>  M   | <br>   | <b> </b><br> | <u> </u> | <br>  M_   | !<br>!         | <br>   | M        | <br>  <u>A  </u> | м                | <u> </u>             | <br>  M_                             | <br>  <u>M</u> | <br>  M        | <br>  <u>  q</u> | <br>          | <br>          | <br>  0   | <br>  | l<br>!       | <br>              | <br>             | <u> </u>   | A           | <br>                     |
| E-076          | <br>  M        | <br>  M   | <br>  M   | <u> </u>   |              | •        | <br><u>  M</u>                                   | <br>           | <br>   |          | <br>             | М                | <br>                 | <br>  <u> </u>                       | l<br>L         | <br>  <u>M</u> | <br>             | !<br>!        | l<br><u> </u> | <br>  | <br><del> </del>                                    | <u> </u><br> |                   | <br>  M          | <br>       | <br> A      | <u> </u><br><del> </del> |
| E-090          | <br>  M        | <br><u>                                    </u> | <br>  <u>M</u>                                    | <u> </u>   | <u> </u>     |          | <br>  M  | <u> </u>       | <br>   | М        | A                | М                | 1<br>  <u>M</u>      | <u> </u>                             | <br>  <u>M</u> | <br><u>  M</u> | <br>  Q          | !<br>!        | <br>          | <br>  <u>  0</u>                                  | <br> A  | <br>         | <br>              | <u> </u>         | <u> </u>   | <br> A      | <u> </u><br><del> </del> |
| E-091          | <br>  M_       | <br>  M   | <br>  M   | !<br>!   |              | <br>     | <br>  <u>  M</u>                                 | <u> </u>       | ·      | M        | A                | М                | <u> </u>             | <u> </u>                             | <br>  M        | M              | <br>  0          | <u> </u>      | <u> </u>      | 1<br><u>  Q</u>                                   | !<br>!  | <u> </u>     | !<br>!            | <br>  <u> </u>   | M          | Α.          | <u> </u>                 |
| E-092          | <br>  M_       | <br>  M   | <br>  <u>M</u>                                    | <u> </u>   | <br>         |          | <br>  <u>                                   </u> | l :            |        | M        | A                | М                | <br>  M              | <u> </u>                             | l<br>M         | <u> </u>       | <br>  <u>Q</u>   | <u> </u>      | <br>          | <br>  <u>                                   </u>  | <br>  A_  | <u> </u>     | !<br><del> </del> | <u> </u>         | M          | Α           | <u> </u>                 |
| E-094          | <br>  M        | <br>  M   | I<br><u>                                     </u> | <u> </u><br>   | <br>         |          | <br>  M  |                | <br>   | М        | A                | М                | M                    | <br>  <u> </u>                       | <br>  M        | M              | <br>  0          | !<br>         | !<br>!        | !<br><u>                                     </u> | !<br>!  | !<br>!       | <u> </u><br>      | <br>  <u> </u>   | [ <u>M</u> | <br>  A '   | 1<br><u> </u>            |
| E-099          | <br>  M        | <u> </u>  | !<br><u>  M</u>                                   | <br>   | <br>         |          | <br>  M  | <br>           | <br>   | <u>M</u> | <u> </u>         | М                | <br>  M              | <br>  <u>M</u>                       | <br>  M        | M              | <br>  0          | !<br><u>L</u> | l<br>         | 1<br><u>  9</u><br>                               | !<br>   | !<br>        | <u> </u>          | <u> </u>         | .<br>  M   | !<br>!      | <u> </u>                 |
| s-050          | <br>  M<br>    | M   | I<br>  M<br>                                      | <u> </u><br>   | <br>  <br>   |          | <br>  <u>M</u><br>                               | !  <br>        |        | !<br>!   |                  | М                | <br>  <u>  M</u><br> | <br>  <u>M</u>                       | <br>  <u>M</u> | <br>  <u>M</u> | <u> </u>         | <u> </u>      | 1<br>         | !<br>   | !<br>   | !<br>        | [                 | I<br><u>М</u>    | !<br>      | <br> A<br>  | <u> </u>                 |
| s-092          | <u>  M</u>     | <br>  M<br>                                     | <br>  <u>M</u><br>                                | 1  |              |          | !<br>  M<br>                                     |                |        |          | .                | <u> </u>         | 1<br> <br>           | M                                    | <br>           | M              | <u> </u>         | <br> <br>     | !<br>[<br>!   | <u> </u><br>                                      | 1<br><u> </u>                                       | !<br>        | <u> </u><br>      | <br>  <u>  M</u> | <u></u>    | <br>        | <u> </u>                 |
| s-093          | <br>  M<br>    | <br>  M<br>                                     | <br>  <u>M</u><br>                                | !<br>  |              |          | <br>  <u>M</u><br>                               | !<br>  <br>    |        |          | <u> </u>         | М                | !<br><u> </u><br>    | <u> </u>                             | <br>  <br>     | <br>  M        | <br>             | !<br>!<br>!   | 1<br> <br>    | <u> </u><br>                                      | I<br><u>  A                                    </u> | <br>         | !<br>!<br>!       | I<br><u>M</u>    | <br>       | !<br> a<br> | <u> </u><br>             |
| s-123          | M              | !<br>  м  | M   | <u>.                                    </u>         | <br>         |          | M  |                |        | M        | A                | М                | M                    | M                                    | M              | M              | '<br>  Q         | <u>.</u><br>  | <u> </u>      | <u> </u>  | <u></u>   |              | <u> </u>          | M                | <br>  M    | A           | <u>i</u> .               |

M = monthly, Q = quarterly, A = annually

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

= dissolved oxygen

= total suspended solids

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

TKN = total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics

Cί = chlorides

рΗ = pH Trans = transparency

Alk = alkalinity

= total phosphorus

TOC = total organic carbon

 $\begin{array}{ll} \text{NH}_{3} & \text{NH}_{4} = \text{ammonia} \\ \text{NO}_{2} & \text{NO}_{3}^{4} = \text{nitrate-nitrite} \end{array}$ 

Sed = sediment (routine) Sed Org = sediment organics

Metals = heavy metals

Fecal Coli = fecal coliform Total Coli = total coliform

 $BOD_5 = 5$ -day biochemical

oxygen demand

| Station<br>No. | <br> Temp<br>   | <br>  DO<br>                                  | <br>  pH<br>         | <br> Salt<br> <br> | <br> Condt<br> <br> | <br>  TSS<br> <br>                           | l<br> Turb<br> <br>  | <br> Color<br> <br> | <br> Trans <br> | Alkl    | <br> Hard<br> <br> | BOD <sub>5</sub> | <br>  NH<br>  NH<br>  NH<br>                 | <br>  NO <sub>2</sub><br>  NO <sub>3</sub><br> | <br> TKN<br> <br>                             | <br>  TP<br> <br>  | <br> тос<br>                                  | <br>  Cl<br> | <br>  Phen<br>    | <br> Metals<br> <br>                          | <br> Pest<br> PCBs<br>                        | <br>  Other<br>  Org*<br> | l<br>  Total<br>  Coli<br>                   | <br>  Fecal<br>  Coli<br>                    | <br> Flow<br> <br>                            | <br>  Sed<br>   | <br>  Sed<br>  Org*                          |
|----------------|-----------------|---|----------------------|--------------------|---------------------|--|----------------------|---------------------|-----------------|---------|--------------------|------------------|--|--|---|--------------------|---|--------------|-------------------|---|---|---------------------------|--|--|---|-----------------|--|
| s-131_         | <br>  M         | M   | <br>  M              | ļ .                | <br>                |  | <br>  M              | [<br>               |                 | M       | l<br>A             | м                | <br>  M                                      | <br>  M  | M   | <br>  M            | <br>  Q                                       | <br>         | <br>              | <br>  0                                       | <br>  <u>a</u>                                |                           | 1<br>  | <br>  M                                      | <br> M  | <br>  A         | ]<br>  |
| s-186          | <br>  M         | <br>  M                                       | <br>  M              | l<br>L             | <br>                | l<br>L                                       | <br>  M              | !<br>!              | <br>            | <br>  M | '<br>  A           | <u> </u>         | <br>  M                                      | M  | ]<br>] м                                      | <br>  M            | <br>  Q                                       | l<br>L       | l<br>L            | <br>  0                                       | l<br>L  | <br>                      | l<br>  | <br>  M                                      | <br>  м                                       | I<br>           | <br>   |
| <b>\$-233</b>  | M               | <br>  M                                       | M                    |                    | [<br>               | [<br>  | <br>  м_             | <u> </u>            | <br>            |         | A                  | M                | <u> </u><br>                                 | <br>  M  | <br>  | <br>  M            | <br>  | l<br>L       | [<br>             | <br>  A                                       | !<br>   | <u> </u>                  | <u> </u>                                     | <br>  M                                      | <u> </u>                                      | <br>  A         | l<br>L                                       |
| s-235          | <br>  <u>M</u>  | <br>  <u>M</u>                                | <br>  M              | <u> </u>           | <br>                | <br>   | <br>  M              | <u> </u>            | <br>            |         |                    | <u> </u>         | <br>   | <br>  M  | .<br>   | <br>  <u>M</u>     | <br>  | <br><u> </u> | l<br>L            | <br>  | !<br><del>!</del>                             | <br>                      | <br>   | <br>  <u> </u>                               | <br>  | !<br>!          | <br><del> </del>                             |
| s-255          | <br>  M         | <br>  M                                       | <br>  <u>M</u>       | <u> </u>           | <br>                | !<br>!                                       | <br>  <u>M</u>       | [<br>               |                 |         | <br>               | <u> </u>         | <br>   | <br><u>  M</u> _                               | l<br><del> </del>                             | <br>  M            | <br>  | <br>         | <br>              | <u> </u>                                      | !<br>!  | <u> </u>                  | <u> </u>                                     | <br>  M_                                     | <u> </u>                                      | <u> </u>        | <u> </u>                                     |
| s-295          | ]<br>  M        | ]<br>  M                                      | ј<br><u>  м</u>      | <u> </u>           | )<br>               | !<br><del> </del>                            | ]<br>  <u>M</u>      | <u> </u>            | <br>            | M       | J<br>  A           | <u> </u>         | ]<br><u>  M</u>                              | <br>  <u> </u>                                 | ]<br>  M                                      | ]<br>  <u>M</u>    | ]<br>  Q                                      | <u> </u>     | !<br>!            | <br>  <u>0</u>                                | !<br><u> </u>                                 | <u> </u><br>              | <br>   | !<br>  <u>M</u>                              | !<br>   | <u> </u><br>    | !<br>  |
| st-025         | <br>  M<br>     | <br>  M<br>                                   | <br>  <u>  M</u><br> | ! !<br>!!          | !<br>               | !<br>  | <br>  <u>M</u>       | !<br>!              |                 | M       |                    | М                | <br>  M                                      | !<br>  <u>M</u><br>                            | <br>  M<br>                                   | <br>  <u>M</u><br> | <br>  Q<br>                                   | <br> <br>    | <br>              | <br>  <u>Q</u>                                | I<br><u>I A</u><br>I                          | !<br><u> </u>             | !<br>  | <br>  <u>M</u><br>                           | <br>  M                                       | <br>  A         | !<br>  |
| sv-068         | M               | <br>  M<br>                                   | <br>  M<br>          | <u> </u>           | !<br>               | !<br>  | !<br>  <u>M</u><br>! | !<br>!!             | <br>  <br>      |         |                    | <u> </u>         | !<br>  | <br>  <u>M</u><br>                             | !<br>   | M                  | <u> </u><br>                                  | <br> <br>    | !<br><u> </u><br> | !<br>!  | <u> </u>                                      | !<br>                     | !<br><u> </u>                                | <br>  M<br>                                  | 1<br>   | !<br>           | <u> </u><br>                                 |
| sv-069         | і<br><u>і</u> м | M   | <br>  <u>M</u><br>   |                    | <u></u>             | i<br><u> </u><br>                            | <br>  <u>M</u><br>   | <u> </u>            | <br>  <br>      | M       | A                  | M                | :<br><u>  M</u><br>                          | <br>  <u>M</u><br>                             | <br>  M<br>                                   | M                  | <u>  q</u>                                    | <br> <br>    | !<br>[<br>1       | 9   | <u> </u>                                      | !<br><u>{</u><br>         | !<br><u>{</u>                                | M<br>  M                                     | !<br><u>  M</u>                               | <u> </u>        | <br>   |
| sv-071         | <u>і м</u><br>І | <u> </u><br>  м                               | <u>  м</u><br>       | <u> </u>           | <u> </u><br>        | !<br>[<br>[                                  | <u> </u><br>  м<br>  | <u> </u>            | <br>  <br>      | M       | A                  | М                | <u>М</u>                                     | :<br>  <u>M</u> _<br>                          | <br>  M<br>                                   | <br>  <u>M</u><br> | 0   | ,<br> <br>   | !<br>             | <br>  <u>Q</u><br>                            | <u> </u>                                      |                           | <br>   | ;<br><u>  M</u><br>                          | M   | <u>.</u><br>    | <u> </u><br>                                 |
| sv-072         | <u>і м</u><br>І | <u>  м</u><br>                                | <u>і м</u><br>І      |                    | <u></u>             | <u>.                                    </u> | <u>  м</u><br>       | <u> </u>            |                 |         | A                  | М                | <u> </u><br> <br>                            | <u>  M</u><br>                                 | <u> </u>                                      | <u>M</u>           | <u>i</u>                                      | <br> <br>    |                   | <u>.</u><br>                                  | <u>.</u>                                      | <u>.</u><br>              | <u>.                                    </u> | <u>і</u> м_<br>І                             | <u> </u><br>                                  | i A             | <u></u>                                      |
| sv-073         | <u>ј м</u><br>1 | <u>  M                                   </u> | М                    |                    | <u></u>             | <u> </u><br>                                 | <u>і м</u><br>І      | <u> </u>            | <br>  <br>      |         |                    | М                | <u>.                                    </u> | <u>м</u>                                       | <u>i                                     </u> | <u> </u>           | <u>i</u>                                      | <br>         | i                 | <u>i                                     </u> | <u>.                                    </u>  | <u> </u><br>              | <br>   | <u>                                     </u> | <u>i</u><br>I                                 | <u> </u>        | <u>i</u>                                     |
| \$V-096        | <u>ім.</u><br>І | <u>ім</u><br>І                                | М                    |                    | <u> </u>            | <u> </u>                                     | <u> </u><br>  м      | ii                  | <u> </u>        |         |                    | M                | i<br>  | <u> </u>                                       | <u>.</u><br>                                  | M                  | <u>i                                     </u> | <br>         | i<br>I            | i ·   | i<br>I  | I                         | <u>i</u><br>I                                | <u>  M</u>                                   | <u>i                                     </u> | <u>.</u><br>    | <u>.                                    </u> |
| sv-118         | ĺ               | M<br>   | <u> </u>             | <br>               | <u> </u>            | <u> </u>                                     | <u>  M</u>           | <br>                |                 | M       | <br>  <u> </u>     | M                | <u>  M</u><br>                               | <u>                                     </u>   | <u>  M</u><br>                                | M                  | <u>м</u><br>                                  | <br> <br>    | l<br>             | <u>j ç</u><br>                                | <u>                                      </u> | i <u>a</u><br>I           | <u> </u><br>                                 | <u>і м</u><br>І                              | <u>і м</u><br>І                               | <u>i a</u><br>I | <u>i a</u><br>I                              |
| sv-151         | <u> </u>        | <u>l</u> M                                    | M                    |                    |                     | L  | M                    |                     |                 |         | L                  | М                | L  | M  | <u> </u>                                      | M                  | <u></u>                                       | L            |                   | <u> </u>                                      | <u> </u>                                      | <u></u>                   | <u> </u>                                     | M  |   | <u> </u>        | Щ  |

M = monthly, Q = quarterly, A = annually

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

= dissolved oxygen

= total suspended solids TSS

Phen = phenols

= pesticides and PCBs

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= total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity Other = other organics

= chlorides

= pHpН

Trans = transparency

Alk = alkalinity

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 $\begin{array}{l} \text{NH}_3 \quad \text{NH}_4 = \text{ammonia} \\ \text{NO}_2 \quad \text{NO}_3 = \text{nitrate-nitrite} \\ \end{array}$ 

Sed = sediment (routine)

Sed Org = sediment organics

Metals = heavy metals

Fecal Coli = fecal coliform Total Coli = total coliform

 $BOD_5 = 5$ -day biochemical

oxygen demand

| Station<br>No. | Temp     | <br>  BO  <br>     | рĦ       | <br> Salt <br> | Condt      | TSS     | Turb | <br> Color<br> | <br> Trans A<br> | lki  | <br> Hard <br> | BOD <sub>5</sub> | <br>  NH<br>  NH<br>  NH <sub>4</sub> | <br>  NO<br>  NO<br>  NO<br>3 | I<br> TKN<br> | <br>  ТР<br>   | <br>  тос<br>  | <br>  cl<br> | <br>  Phen<br> | <br> Metals<br> | <br> Pest<br> PCBs | <br>  Other<br>  Org*<br> | <br>  Total<br>  Coli | Fecal<br>  Coli | <br> Flow<br>          | Sed      | <br>  Sed<br>  Org*<br> |
|----------------|----------|--------------------|----------|----------------|------------|---------|------|----------------|------------------|--|----------------|------------------|---------------------------------------|-------------------------------|---------------|----------------|----------------|--------------|----------------|-----------------|--------------------|---------------------------|-----------------------|-----------------|------------------------|----------|-------------------------|
| sv-175         | <br>  M  | <br>  <u>M</u>     | M        | <br>           |            |         | M    | <br>           | l  <br>LL        | <br>   | A              | М                | l<br>L                                | <u> </u>                      | <br>          | M              | <br>           | <br>         | <br>           | <br>            | <br>L              | l<br>L                    | l<br>L                | <br>  M         | <br>                   | <br>     | <br>                    |
| sv-250         | <br>  M  | <br>  M            | М        | <br>           | <br>       | <br>    | М    | <u> </u>       |                  | M  | A              | м                | <br>  M                               | <br>  <u> </u>                | M             | <br>  <u> </u> | <br>  <u>0</u> | <br>         | <br>           | <br>  <u> </u>  | <br>  _A           | <u> </u><br>              | <br>                  | <br>  M         | <br>  м                | <br> A   | <br>                    |
| sv-251         | <br>  M  |                    | <u> </u> |                |            | [<br>[] | М    | <br>[          | <br>             | <br>   | A [            | М                | <br>  M                               | M                             | <br>  M       | <br>  <u> </u> | Q              | <br>         | Q              | ]<br>  Q        | i<br>L             | <br>                      | {<br>{                | <br>  M         | I<br>I м               | !<br>!   | <u> </u>                |
| sv-252         | <br>  M  | <br>  <u>M</u>     | М        |                | 1          |         | M    | <u> </u><br>   | <br>             | <br><u>                                    </u>  | A              | М                | <br><u> </u> м                        | <br>  <u>M</u>                | M             | <br>  <u> </u> | <br>  Q        | <u> </u>     | l Q            | <br>  Q         | <br> A             | l<br>L                    | <br>                  | <br>  M         | <br>  <u> </u>         | <br>     | <u> </u>                |
| sv-291         | <br>  M  | <br>  M            | M        | <br>           | M          | М       | M    |                |                  | <br>   | A              | М                | M                                     | <u> </u>                      | <br>  M       | <u> </u>       | <br>  <u> </u> | <br>         | <br>           | <br>  0         | J<br>L A           | ]<br>  <u>A</u>           | <br>                  | ]<br>  <u>M</u> | <u> </u><br>  м        | <br>     | <br>  A_                |
| sv-294         | <br>  M  | <br>  M            | М        |                | I          |         | М    | <u> </u><br>   |                  | M  | _ A            | М                | <br>  M_                              | <u> </u>                      | [<br>[_M      | <br> m_        | <br>  <u>0</u> | <br>         | Q              | <br>  Q         | <br>               | <br>                      | <br>                  | <br>  M_        | <br>  <u>M</u>         | <br>     | <u> </u>                |
| sv-318         | <br>  M  | М                  | М        |                | !          |         | М    | <u> </u>       |                  | <br>  <u>                                   </u> | _ A _          | М                | <br>  M                               | <br>  <u>  M</u>              | l M           | <u> </u>       | <br>  <u>a</u> | <br>         | <br>           | <br>  <u> </u>  | I<br>L A           | [<br>]                    | [<br>[                | <br>  M         | <u> </u><br><u>  м</u> | [<br>    | <u> </u>                |
| sv-323         | M        | M                  | М        |                | M -        | М       | M    | l<br>          |                  | <br>  M  | A              | М                | <br>  M                               | <u> </u>                      | -<br>  M      | M              | <u> </u>       | l<br>L       | l<br>L         | 1 0             | i<br>L A           | <br>  A                   | <br>                  | ]<br>] M        | I<br><u>I м</u>        | <br>     | <br>  A                 |
| sv-324         | <br>  M_ | <br>  <u>     </u> | М        | <br>           | <u> </u>   |         | М    | <br>           |                  | <u> </u>   | _ A _          | М                | <br>  M                               | <br>  <u> </u>                | <br>  M       | <br>  <u> </u> | <br> Q         | l<br>L       | <br>           | <br>  0         | <br>  A            | <br> A                    | l<br>                 | <br>  M         | <br>  M_               | !<br>!   | <br>                    |
| sv-325         | <br>  M  | ]<br>  <u>M</u>    | M        | <br>           | _ <u>M</u> |         | М    | l<br>L         | <br>  -          | <u> </u><br>                                     | _ <u>A</u>     | М                | <br>  <u> </u>                        | <br>  <u>M</u>                | <br>  M       | M              | Q              | <br>         |                | <br>  <u> </u>  | <br>  <u> </u>     | <br>  A                   | <br>                  | <br>  <u> </u>  | <u> </u>               | !<br>!   | <br><u> </u>            |
| sv-326         | <br>  M  | ·  <br>  M         | <u> </u> | <br>           | <u> </u>   |         | M    | -<br>          | <br>             | <br>   | _ A _          | м                | !<br><u>јм</u>                        | <u> </u>                      | M             | <br>  <u> </u> | <br>  0        | l<br>L       | l<br>L         | <br>  <u>0</u>  | <br>               | <br> A                    | l<br>L                | <br>  M         | <br>  м_               | <u> </u> | !<br>                   |
| sv-327         | <br>  M  | <u> </u>           | M        | <br>           | M          |         | M    |                |                  | M  | _A             | М                | [<br>  M                              | M                             | М             | M              | <br>  <u> </u> | <br>         |                | <br>  0         | (<br>L_A_          | <br>                      | l<br>                 | <br>  M         | {<br>  <u> </u>        | !<br>!   | <u> </u>                |
| sv-328         | <br>  M  | M                  | м        |                | M          |         | М    | <br>           |                  | <br>  <u>                                  </u>  | Α              | М                | ]<br>] м                              | M                             | <br>  M       | М              | Q              | <br>         | l<br>L         | <br>  <u>0</u>  | <br>               | <br>  <u> </u>            | <br>                  | <br>  M         | <br>  M                | !<br>    | <br>                    |
| sv-329         | <br>  M  | <br>  <u>     </u> | М        | <br>           | 1          | l       | _ м  | <br>           | <br>  <u> </u>   | <br><u>                                    </u>  | A              | м                | <br>  м                               | <u> </u>                      | M             | _ м            | <br>  0        |              | <u> </u>       | <br>  Q         | <br>               | <br>                      | <br>                  | <br>  м         | <br>                   | <br>     | <u> </u>                |
| sv-330         | <br>  M  | <br>  M            | M        | <br>           | l          | l       | _ M  | <br>           |                  | <br>  `M   | A I            | M                | <br>  M                               | M                             | <br>  M       | M              | <br>  0        | <b> </b><br> | <br>           | <br>  Q         | <br>               | [<br>                     | <b>}</b><br>1         | <br>  M         | <br>  M                | [<br>[   | 1                       |

\*Base-Neutral and Acid Extractable, and Volatile Organics

= dissolved oxygen

TSS = total suspended solids

Phen = phenots

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TOC = total organic carbon

 $\begin{array}{ll} \text{NH}_3 & \text{NH}_4 & = \text{ ammonia} \\ \text{NO}_2 & \text{NO}_3 & = \text{ nitrate-nitrite} \end{array}$ 

Sed Org = sediment organics Metals = heavy metals Fecal Coli = fecal coliform Total Coli = Total Coliform

 $BOD_5 = 5$ -day biochemical

Sample Stations: Charleston

| Station<br>No.   | Temp  | DO   | pH             | Salt     | <br> Condt<br> | TSS          | Turb           | Color <br> Color | Trans    | Alkl | <br> Hard <br> | BOD <sub>5</sub> | NH<br>  NH<br>3<br>  NH <sub>4</sub> | NO <sub>2</sub>        | TKN     | ΤP | TOC            | cı<br>  cı     | l<br>  Phen<br> | <br> Metals<br>                                  | Pest<br>PCBs | <br>  Other<br>  Org*<br> | <br>  Total<br>  Coli<br> | <br>  Fecal<br>  Coli | <br> Flow<br>   | •         | Sed<br>  Org* |
|------------------|---|--|----------------|----------|----------------|--------------|----------------|------------------|----------|------|----------------|------------------|--------------------------------------|------------------------|---------|----|----------------|----------------|-----------------|--|--------------|---------------------------|---------------------------|-----------------------|-----------------|-----------|---------------|
| CSTL-006         | <br>  M   | <br>  M  | M              | <br>     | ļ<br>L         | <br>         | <br>[ <u>м</u> | <br>             |          | M    | <br>  A        | М                | M                                    | <br>  M                | <br>  M | М  | <br>  Q        | <u> </u>       | <br>            | <br>  Q  | !<br>!       | ]<br>                     | <br>                      | <br>  м               | <br>  <u> </u>  | _ A       |               |
| CSTL-007         | M   | <br>  <u>                                   </u> | <u> </u>       | <br>     | !<br>!         | !<br>        | M              | <br>             |          |      | <br>           | м                | l<br>L                               | <br>  M                |         | М  | <u> </u>       | <u> </u>       | !<br>L          | <br>   | !<br>        | l<br>L                    | !<br>                     | <br>  <u>M</u>        | <br>            | !<br>     | l<br>L        |
| <u> CSTL-010</u> | <br>  M   | <br>   | <br>  <u> </u> | <u> </u> | l<br>L         | l<br>L       | <br>  <u> </u> | <br>             |          | 1    | <br>  A        | М                | <br>                                 | [<br><u>  м</u>        | <br>    | М  | <br>           | <br>           | <br>  Q         | <br>   | l<br>——      | <u> </u><br>              | <br>                      | <br>  M               | <br>            | <br>      | <br>          |
| CSTL-011         | <br>  M   | <br>  M  | М              | <br>     | !<br>!         | l<br>        | M              |                  | 1        |      | <br>           | М                | !<br>!                               | <u> </u><br>  м        | <br>    | М  | !<br>          | <br>           | Q               | l<br>L   | l<br>L       | l<br>                     | <u> </u>                  | [<br>  M              | [<br>           | [<br>     |               |
| CSTL-013         | <br>  M   | <br>  M  | М              | <br>     | 1<br>          | l<br>I       | <u> </u>       |                  | l        |      | <br> _A_       | М                | l<br>L                               | <u> </u><br><u>  м</u> | <br>    | M  | <br>           | <br>           | <br>            | <br><u>                                     </u> | l<br>L       | !<br>                     | <br>                      | <br>  M               | l<br>L          | <br> A    |               |
| CSTL-043         | <br>  M   | <br>  M_   | <br>  <u> </u> | <br>     | l<br>L         | l<br>L       | M              |                  |          |      |                | М                | l<br>!                               | <br>  <u>M</u>         |         | М  | <br>           | <br>           | <br>            | 1<br>L   | <br>         | I<br>                     | <br>                      | <br>  и               | l<br>L          | l<br>L    |               |
| CSTL-044         | <br>  M   | <br>  M  | M              | <br>     | <u> </u>       | <br>         | М              |                  |          |      |                | м                | l<br>!                               | <br>  H                |         | М  | <br>           | <br>           | <br>            | <br>   | l<br>L       | l<br><u>l</u>             | !<br>L                    | <br>  м               | l<br>!          | l<br>L    | <br>          |
| CSTL-062         | <br>  M   | M  | М              | <u> </u> | !<br>!         | l<br>!       | М              | <br>  <u> </u>   |          | М.   | A              | м                | <br>  <u> </u>                       | <u> </u>               | H       | М  | <br>  <u>Q</u> | <br>           | l<br>L          | <br>  <u> </u>                                   | <br>         | l<br>L                    | <br>                      | <br>  M               | <br>  <u> </u>  | <br> A    |               |
| CSTL-063         | <br>  M   | M  | M              | <br>     | <br>           | !<br>!       | M              |                  | l        | M    |                | M                | <br>  <u> </u>                       | <br>  <u> </u>         | M       | М  | <br>  <u>0</u> | <br>  <u>M</u> | <br>            | <br>  0  | <u> </u>     | <u> </u><br>              | <u> </u><br>              | <br>  M               | <br>  M         | <br> A    | <br>          |
| CSTL-068         | <br><u>                                    </u> | M  | <u> </u>       | <u> </u> | l<br>          | l<br>L       | M              |                  | <u> </u> |      |                | М                | <br>                                 | <br><u>ј м</u>         |         | М  | <br>           | <br>           | <br>            | <br>   | !<br>└──     | <br>                      | l<br>                     | <br><u>  м</u>        | <br>            | l<br>L    | l<br>L        |
| CSTL-069         | ]<br><u>  m</u>                                 | <br>  M  | M              | <br>     | <b>!</b><br>!  | J<br>L       | M              |                  |          |      |                | М                | l<br>L                               | <br>  м                |         | M  | l<br><u>L</u>  | <br>           | <br>            | <br>   | <br>         | <u> </u>                  | <br>                      | <br>  M               | l<br>           | <br>      | <br>          |
| CSTL-075         | <br>  M   | <br>  M  | <br>  <u> </u> | <br>     | <u> </u>       | <br>         | M              | <br>             |          | 1    |                | М                | <br>                                 | <br>                   | <br>    | М  | l<br>          | <br>           | <br>            | l<br>L   | l<br>        | <br>                      | <br>                      | <br>  <u>M</u>        | <br>            | <br>      |               |
| CSTL-079         | <br>  M   | M  | <u> </u>       |          | <u> </u><br>   | <u> </u><br> | M              | <br> 1           | I        | M    | A              | M                | <br>  <u> </u>                       | <br>  <u> </u>         | <br>  M | М  | <br>  0        | <br>           | <br>            | <br>  <u> </u>                                   | !<br>        | !<br>                     | !<br>!                    | ј<br>  м              | ]<br>  <u>M</u> | <br> _A_  | <br>          |
| CSTL-085         | <br>  M   | <br>  M  | M              | <br>     | <br>           |              | M              |                  | <u> </u> |      | <br> _A_       | м                | <br>                                 | <br>  M                | <br>    | M  | <br>           | <br>           | <br>            | <br>   | <br>         | l<br>L                    | <u> </u>                  | <br>  M               | l<br>L          | <br>  _ A | <br>          |

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Sample Stations: Charleston

| Station<br>No. | <br> Temp | <br>  00<br> | <br>  pH<br>   | <br> Salt<br> | <br> Condt<br> <br> | <br>  TSS<br> <br> | <br> Turb<br> | <br> Color   | Trans  | Alkl | <br> Hard <br> | BOD <sub>5</sub> | <br>  NH<br>  NH<br>  NH<br> | NO <sub>2</sub><br>  NO <sub>3</sub> | <br> TKN | <br>  TP<br>   | <br>  TOC<br> <br> | <br>  cl<br> <br> | <br>  Phen<br> | <br> Metals<br> <br> | <br> Pest<br> PCBs | Other<br>Org*  | <br>  Total<br>  Coli | <br>  Fecal<br>  Coli | <br> Flow<br>  | Sed          | Sed  <br>Org* |
|----------------|-----------|--------------|----------------|---------------|---------------------|--------------------|---------------|--------------|--------|------|----------------|------------------|------------------------------|--------------------------------------|----------|----------------|--------------------|-------------------|----------------|----------------------|--------------------|----------------|-----------------------|-----------------------|----------------|--------------|---------------|
| CSTL-098       | <br>  M   | M            | <br>  M        | <br>  M       | <br>  M             | <br>  M'           | ]<br>  M      | <u> </u><br> | <br> 1 | м    | <br> A_        | M                | M                            | <br>  M_                             | <br>  M  | <br>  <u>M</u> | <br>  M            | <br>              | <br>           | <br>  <u>a</u>       | <br> A             | <br>           | <br> м                | M                     | M              | <br>  A      | <br>  A       |
| CSTL-099       | <br>  M   | <br>  M_     | <br>           | <br>          | ]<br>]              | <br>               | <br>  M       | <br>         |        |      |                | M                | <br>                         | l<br>I M                             |          | <br> M_        | <br>               | <br> <br>         |                | <br>                 | l<br>L             | <br>           | <u> </u><br>          | <br>  <u> </u>        | <u> </u><br>   | <br>         | <br>          |
| CSTL-102       | <br>  M   | <br>  M      | i<br>M         | <br> <br>     |                     | l<br>L             | <br>  M       | <br>         |        | :    |                | М                |                              | <br>  M                              |          | <br>  M        | <br>               | <br> <br>         | <br>           | <br>                 | <br>               | <br>           | <br>                  | <br>  M               | <br>           | <b>!</b> . ! | <br>          |
| CSTL-107       | <br>  M   | <br>  M_     | <br>  M        | <br>  M       | <br>  M             | <br>               | <br>  M       | [<br>[]      |        | М    | A              | M                | <br>                         | <br>  M                              | l<br>I M | M              | <br>  Q            | <br> <br>         | <br> <br>      | <br>  •              | l<br>              | l              | <br>  M               | <br>  M               | <br>  M        | <br> A       | 1             |
| CSTL-108       | <br>  M   | <br>  M      | l<br>L M       | <br>          |                     | l<br>L             | <br>  M       | [<br>[]      |        |      |                | М                | <br>                         | l<br>L                               |          | M_             | <br>               | <br> <br>         | <br>  <u> </u> | <br>                 | i<br>L             | <br>           | <br>                  | <br>  M               | l<br>L         | l<br>1       | <br>          |
| CSTL-109       | <br>  M   | <br>  M      | <br>  M        | <br>          | l<br>L M            | <br>  M            | <br>  M       | l  <br>L     |        | М    | A              | М                | <br>  M                      | <br>  M_                             | M        | М              | <br>  <u> </u>     | l<br>L            | <b>!</b><br>!  | <br>  <u>0</u>       | l<br>L A           | <br>           | <br>                  | <br>  м               | <br>  M        | <br>         |               |
| E-014          | <br>  M   | <br>  M      | <br>  M        | <br>          | <br>                | ]<br>1             | <br>  M       | [<br>[]      |        |      | <br>           | M                | <br>                         | <br>  M                              | <br>     | М              | <br>               | <br>              | <br>           | <br>                 | l<br>L             | i<br>!         | l<br>L                | <br>  M               | <br>           |              | <br>          |
| E-015          | <br>  M   | <br>  M      | <br>  M        | <br>          | <br>  M             | <br>  M            | <br>  M       | <br>         | l I    | М    | A              | М                | <br>  M                      | <br>                                 | <br>  M  | M              | <br>  <u>M</u>     | !<br>!            | <br>           | <br>  •              | <br>  A            | <br>  <u> </u> | l<br><u>L</u>         | <br>  м               | <br>  <u>M</u> | <br>  A      | <b> </b><br>  |
| E-016          | <br>  M   | M            | <br>  M        | <br>          | <br>                | {<br>              | <br>  M       | [<br>[       |        |      |                | М                | <br>                         | <br>  <u> </u>                       | <br>     | <br>  M        | <br>L              | <br>              | <br>           | <br>                 | <u> </u>           | <br>           | l<br>                 | <br>                  | l<br>1         | <u> </u>     | <br>          |
| E-100          | l M       | H            | <br>  M        | <br>          | <br>  M             | <br>  M            | <br>  M       | . <br>       |        | М    | <br>  A        | М                | <br>  M                      | <br>  M                              | <br>  M  | <br> M         | <br>  M            | l<br>L            | l<br>I         | <br>  <u>0</u>       | <br>  A            | <br>           | !<br>!                | <br>  <u>M</u>        | <br>  M        | <br>         |               |
| MD-001         | <br>  M   | l<br>I M     | <br>  <u>M</u> | <br>          | <br> M              | l<br>1             | <br>  M       |              | <br>   |      |                | м                | l<br>l                       | <br>  M                              | [<br>[   | M              | <br>               | <br>              | <br>           | <br>                 | <br>               | <u> </u><br>   | <u> </u><br>          | <br>  M               | 1<br>          | !<br>        | <br>          |
| MD-002         | <br>  M   | l<br>l M     | <br>  <u>M</u> | М             | <br> M              | !<br>!             | M             |              | <br>   |      |                | M                | <br>                         | <br> M                               | !<br>!   | M              | <br>               | <br>              | <br>           | <br>                 | l<br>L             | <br>           | [<br>                 | <br>  M               | <br>           | <br>         | <br>          |
| MD-003         | <br>  M   | <br>  M      | <br>           | <br>  M       | <br>  _ M           | !<br>!             | M             |              |        |      | <br>           | M                | <br>                         | <br>  M                              |          | М              | <br> <br>          | <br>              | <br>           | ļ                    | <br>               | <br>           | <br>                  | <br>  H               | l<br>L         | !<br>!       | <br>          |
| MD-004         | <br>  M   | <br>  M      | <br>  M        | <br>  M       | M                   | <br>               | M             |              | <br>   |      | A              | М                |                              | <br> M                               |          | М              | <br>               | <br>              | <br>           | l A                  |                    | l<br>L         | <br>  M               | <br>  M               | <br>           | <br>         | <br>          |

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|----------------|---------------|---|-------------------|---|--|---------------|---------------------|-----------------|-----------------|----------------|----------------|------------------|-------------------------------|------------------------------------|----------|-----|--------------------|---------------|--------------|----------------------|------------------------|---------------|-----------------------|---|-------------------|---------------|---------------|
| MD-005         | <br>  M       | <br>  M   | <br>  M           | <br>  | l<br>M   | <br>          | <br>  M             |                 |                 | <br>           |                | М                | [<br>[                        | <br>  M                            |          | . м | <br>               | <br>          |              | <br>                 |                        |               | <br>  M               | <br>  M   | i<br>!            | <br>          | <br>L         |
| MD-006         | <br>  M       | <br>  M   | <br>  M_          |   | <br>  M  | <br>          | <br>  M             |                 |                 |                |                | M                |                               | M                                  | l.<br>L  | M   | <br>               | l<br>L        |              | <br>                 | <br>                   | <br>          | <br> M                | <br>  M   | <br>              | <br>  A       | <u> </u>      |
| MD-007         | <br>  M       | <br>  M   | <br>  <u>M</u>    | ]<br>  м  | <br>  M  | <br>          | <br>  M             | <u> </u>        |                 | M              | A 1            | м                | <br>  M                       | <br>  M_                           | M        | м   | <br>  0            | <br>          |              | 1 0                  | <br>                   | l<br>         | <br>  M               | <br><u> - м</u>                                 | <br>  <u>M</u>    | <br>          | <br>          |
| MD-010         | <br>  M       | <br>  M   | !<br><u>  м</u>   | <br><u>  M</u>                                  | <br>[ <u>M</u>                                   | <br>          | <br>  M             | <br>            | <br>            | <br>           |                | М                | <br>                          | <u> </u>                           | <br>     | M   | <br>               | <br>          | l<br>L       | l<br>L               | <br>  A                | l<br>L        | [<br>] M              | ļ<br>] м  | l<br>             | <br>          | <u> </u>      |
| MD-013         | <br>  M_      | [<br><u> </u> M                                 | <br>  <u> </u>    | <br>[M  | <br>  <u>M</u>                                   | <br>          | M                   | <br>            |                 | <br>           | <br>           | <u> </u>         | l<br>!                        | <u>M</u>                           | <u> </u> | М   | <u> </u><br>       | <br>          | L            | <u> </u>             | <u> </u>               | <br>          | <br>  <u> </u>        | <br>  м   | <br>              | !<br>         | !<br>!        |
| MD-016         | <br>  M       | <br>  M   | <br>  M           | <br>  M   | <br>  M  | †<br>!        | l w                 | <br>            |                 |                |                | М                | l<br>!                        | M                                  |          | м   | <br>               | l<br>L        | <u> </u>     | <u> </u>             | <br>                   | l<br>L        | <br>  <u> </u>        | <br><u>                                    </u> | l<br>!            | !<br>!        | <u> </u><br>  |
| MD-020         | <br>  M_      | <br>  M   | <br><u>  M</u>    | <br>  <u>                                  </u> | <br>  M  | <br>          | M                   | <u> </u>        |                 | M              | A              | М                | <br>  <u>M</u>                | <u> </u>                           | M        | М   | <br>  <u>a</u>     | l<br><u> </u> | <br>         | <br>  <u> </u>       | l<br><u> </u>          | <br><u> </u>  | l<br><u> </u>         | <br>  <u>M</u>                                  | !<br>!            | <br>          | <u> </u><br>  |
| MD-025         | <br>  M_      | <br>  <u> </u>                                  | <br>  <u>M</u>    | <br>  <u> </u>                                  | <br>  M_   | <u> </u>      | M                   |                 |                 | <br>           |                | М                | <br>                          | M                                  | -<br>    | М   | <u> </u>           | 1<br>         | <u> </u><br> | <u> </u><br>         | <br>                   | <u> </u>      | <br>  <u> </u>        | <br>  M   | 1<br>!            | <u> </u><br>  | <br>          |
| MD-026         | <br>  M       | <br>  M   | <br>  <u>M</u>    | <br>  <u>M</u>                                  | <br>  M  | <u> </u>      | <u>  M</u>          |                 |                 | M              | A              | M                | I<br><u>1 м</u> _             | <br>  <u> </u><br> -               | <br>  M  | М   | <br>  0            | l<br><u> </u> | !<br>        | <br>  0              | l<br><u> </u>          | !<br><u>!</u> | i<br>  <u>M</u>       | <br>  M   | <br>  <u>M</u>    | <br>          | <u> </u><br>  |
| MD-034         | <br>  M       | ]<br><u>  M</u>                                 | <br><u>  M</u>    | !<br><u>} м</u>                                 | <br>  M  | <u> </u>      | I M                 | <u> </u>        | <u> </u>        | M              | A              | М                | !<br><u>1 м</u>               | M                                  | M        | М   | <br>  0            | !<br>!        | <br>         | <br>  0              | !<br><del> </del>      | <u> </u>      | l<br><u> </u>         | l<br><u>  M</u>                                 | !<br><del> </del> | !<br><u> </u> | <u> </u>      |
| MD-039         | <br>  M       | <u>                                     </u>    | 1<br>  <u>M</u>   | <br>  M   | <br>  <u>                                   </u> | <u> </u><br>  | M                   |                 |                 | <br>           |                | М                | !<br><u>!</u>                 | <u> </u>                           | 1        | М   | <u> </u>           | !<br>!        | l<br>        | <u> </u><br>         | <u> </u>               | <u> </u>      | !<br><u> </u>         | <br>  M   | !<br><del> </del> | <u> </u>      | <u> </u>      |
| MD-043         | <br>  M       | I<br><u>I м</u>                                 | ]<br>] <u>M</u>   | <br>  M   | <br>  M_   | <u> -</u>     | [<br>  M            | <u> </u>        | <br>            | M              | Α              | M                | I<br><u>М</u>                 | <u>М</u> _                         | <br>  M  | М   | 0                  | !<br>         | !<br>        | 1 0                  | <br>                   | !<br>         | !<br><u>[</u>         | <br>  M<br>                                     | <u> </u><br>      | <br> A        | <br>          |
| MD-044         | <br>  M       | <br>  <u>                                  </u> | !<br><u>  м</u>   | <br>  M   | I<br>  <u>M</u><br>                              | ļ             | <br>  M             | <u> </u>        |                 | M              | <br>  <u>A</u> | M                | <br>  M<br>                   | <br>  <u> </u>                     | <br>  M  | М   | <br>  <u>Q</u>     | !<br>!        | I<br><br>I   | !<br>  Q             | !<br>!                 | <br>          | <br>                  | <br>  M   | !<br>!            | <u> </u>      | <u> </u>      |
| MD-045         | !<br>  M      | I<br><u>  м</u>                                 | I<br>M            | <br>  <u> </u>                                  | 1<br>  <u>M</u>                                  | <u> </u>      | M                   | <br>            | <br>            | <br>  <u>M</u> | A              | М                | !<br><u>  M</u>               | <br>  M                            | I<br>M   | M   | <br>  Q            | !<br>         | !<br>        | <br>                 | <u> </u>               | <u> </u><br>  | <u> </u><br>          | <br>  M   | <u> </u>          | <br>  A:_     | <u> </u>      |

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

= dissolved oxygen

TSS = total suspended solids

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

TKN = total Kjeldhal nitrogen

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Condt = conductivity

Hard = hardness

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Other = other organics

Cl = chlorides

рH = pH Trans = transparency

Alk = alkalinity

= total phosphorus

TOC = total organic carbon

 $\begin{array}{lll} \text{NH}_3 & \text{NH}_4 & = \text{ ammonia} \\ \text{NO}_2 & \text{NO}_3 & = \text{ nitrate-nitrite} \\ \end{array}$ 

Sed = sediment (routine) Sed Org = sediment organics

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Fecal Coli = fecal coliform

Total Coli = total coliform

 $BOD_5 = 5$ -day biochemical

Sample Stations: Charleston

| Station<br>No. | <br> Temp<br> | <br>  DO<br> | <br>  pH<br> | <br> Salt<br> <br> | <br> Condt<br> <br> | <br>  TSS<br> <br> | <br> Turb<br> | <br> Color<br> <br> | <br> Trans <br> | <br> Alkl<br> | <br> Hard <br> | BOD <sub>5</sub> | <br>  NH <sub>3</sub><br>  NH <sub>4</sub><br> | NO <sub>2</sub><br>  NO <sub>3</sub> | <br> TKN  <br> | TP           | <br>  TOC<br> <br> | <br>  Cl<br> | Phen<br> . | <br> Metals<br> | <br> Pest<br> PCBs | <br>  Other<br>  Org* | <br>  Total<br>  Coli | <br>  Fecal<br>  Coli | <br> Flow | Sed           | Sed  <br>  Sed  <br>  Org* |
|----------------|---------------|--------------|--------------|--------------------|---------------------|--------------------|---------------|---------------------|-----------------|---------------|----------------|------------------|--|--------------------------------------|----------------|--------------|--------------------|--------------|------------|-----------------|--------------------|-----------------------|-----------------------|-----------------------|-----------|---------------|----------------------------|
| MD-046         | <br>  M       | <br>  M      | j<br>I m     | )<br>  M           | l M                 | ]                  | l M           | ]                   |                 | i<br>I M      | <br>  A        | M                | <br>  M  | l<br>M                               | <br>  M        | М            | 0                  | <br>  M      |            | <br>  Q         | <br>               | <br>                  | [<br>[                | <br>  M               |           | l             | <br>                       |
| MD-047         | l<br>I M      | <br>  M      | l M          | l M                | l M                 | İ                  | <br>  M       | ) · .               |                 | <br>  M       | A              | М                | [<br>  м                                       | <br>  M                              | <br>  M_       | M            | <br>  Q            |              | l<br>1 .   | l q             | <br>[<br>[         | <br> <br>             |                       | [<br>  M              | [<br>[    | <b> </b>      |                            |
| MD-048         | I             | <br> <br>  M | l M          | 1                  |                     | i m                | <br>  H       | ]<br>               | <br>  M         | <br> <br>  M  |                | м                | i<br>I M                                       | M                                    | ]<br>  M       |              | 1                  |              |            | <br>  Q         | l<br>I A           | i<br>I A              | <br> <br>             | M                     | <br>      | <br>  A_      |                            |
| MD-049         | l             | <br>  M      | <br> <br>  M |                    |                     | 1                  | .<br>  M      | 1                   |                 | M             | A              | 1 M              | <br>  M  | <br>  M                              | ]<br>  M       |              | ]                  | l            |            | <br>  0         | <br> <br>          | <br> <br>             | <br>                  | <br>  M               | [<br>  M  | <br>          | i<br> i                    |
| MD-052         | i             | <br>  M      | <br>  H      |                    |                     | l<br>I             | <br>  M       |                     |                 | M             | A              | M                | <br>  M  | M                                    | ]<br> - м      |              |                    |              | ]<br>      | <br>  0         | <u> </u>           | <br>                  | 1                     | <br>  M               | <b>.</b>  | <br> <br>  A_ |                            |
| MD-069         | i             | l M          | <br>  H      | i                  |                     |                    | <br>  M.      | 1                   | l i             | M             | A              | М                | <br>  M  | M                                    | l M            | M            | I                  | }<br>}<br>   | <br>       | <br>  0         | ]<br>              |                       | ]<br>  M              | <br>  M               | [<br>     |               |                            |
| MD-070         | 1             | [<br>] M     | ı            | [<br>  M           | [                   | [                  | <br>  H       |                     |                 | M             | A              | М                | l<br>I M                                       | l m                                  | ]<br>  M       | <br> <br>  M | 0                  | <br> <br>    | ·          | <br>  Q         | ]<br>              |                       | ]                     | <br>  M               | <br>      | ļ<br>1        | <br>                       |
| MD-071         | 1             | <br>  H      | l            | <br>  H            |                     | [                  | <br>  H       | (                   |                 | М             | 1 1            | M                | <br>  M  | М                                    | l<br>M         | M            | 1 0                | }<br>        | l<br>I     | <br>  Q         | j<br>1             | !                     | )<br>                 | ]<br>  M              | j<br>I M  | j<br>         |                            |
| MD-113         | <br>  M       | <br>  M      | <br>  H      | <br>  H            | M                   | [                  | Í<br>I M      | {<br>               |                 | M             | A              | М                | i<br>I m                                       | M                                    | <br>  M        | M            |                    | <b>}</b>     |            | <br>  Q         | l<br>1             | <u> </u>              | 1                     | <br>  M               | l<br>M    | <br>          | , ,<br>                    |
| MD-114         | 1             | <br>  M      | <br>  M      | <br>               | M                   | <br> <br>          | <br>  M       | [                   |                 | M             | <br>  A        | м                | M  | [<br>] M_                            | <br>  M        | M            | 1                  | <u> </u>     | l<br>1     | <br>  Q         | 1                  | l<br>                 | j<br>1                | <br>                  | <br>  M   | j<br>1.       | ]                          |
| MD-115         | <br>  M       | Ī            | <br>  M      |                    |                     | <br>               | l<br>I M      | l<br>L              | <u> </u>        | M             | <br>           | М                | [<br>] M                                       | [<br>] M_                            |                | M            | <br>  Q            | †<br>        | (<br>      | <br>  Q         |                    |                       |                       | M                     | <br>  M   | <br>          | <br>                       |
| MD-116         | <br>  M       | <br>  M      | <br>  M      | <br>  M            | M                   |                    | M             | <u> </u>            |                 |               |                | М                | <br> <br>                                      | M                                    | [              | М            | [<br> <br>         | [<br>[       | <br> <br>  | (<br>           | <br>  A            | l<br>                 | <br>  M               | <br>  M               | l<br>L    | <br>  A       |                            |
| MD-117         | [<br>  M      | <br>  M      | <br>  M      | l M                | M                   | 1<br>L             | <br>  M       | <br>                | <br> <br>       |               | <br>           | _ M              | <br> <br>                                      | M                                    |                | М            | <br>               | [<br>        | l<br>      | 1               | <br>               | [<br>[                | [<br>  M_             | <br>  M               | l         | !<br>         |                            |
| MD`-118        | <br>  M       | <br>  M      | <br>  M      | ]<br>  м           | M                   | <br>               | M             |                     |                 | М             | A              | М                | <br>  M  | М                                    | <br>  M        | M_           | <br>  0            |              | l<br>L     | <br>  <u>0</u>  |                    | [<br>]                | [                     | [<br>  <u>M</u>       | <br>  M   | <br>          |                            |

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Fecal Coli = fecal coliform

Total Coli = total coliform

BOD<sub>5</sub> = 5-day biochemical oxygen demand

Sample Stations: Charleston

| Station<br>No. | <br> Temp<br>                                | <br>  DO<br> <br>                            | ]<br>  pH<br> <br>  | <br> Salt<br> <br>                              | <br> Condt<br> <br>                               | <br>  TSS<br>                                 | <br> Turb<br> | <br> Color<br>  | <br> Trans <br>                              | Alkl | Hard           | BOD <sub>5</sub> | <br>  NH<br>  NH<br>  NH<br> | NO<br>  NO<br>  NO<br>3 | <br> TKN   | TP       | <br> TOC<br> <br> | <br>  Cl<br> | Phen         | <br> Metals<br> <br> | <br> Pest<br> PCBs<br> | <br>  Other<br>  Org*<br> | <br>  Total<br>  Coli<br>  | <br>  Fecal<br>  Coli<br> | <br> Flow<br> <br> | <br>  Sed<br> <br>                           | <br>  Sed<br>  Org*<br> |
|----------------|--|--|---------------------|---|---|---|---------------|-----------------|--|------|----------------|------------------|------------------------------|-------------------------|------------|----------|-------------------|--------------|--------------|----------------------|------------------------|---------------------------|----------------------------|---------------------------|--------------------|--|-------------------------|
| MD-119         | <br>  M_                                     | <br>  M                                      | <br>  M             | <br>  M   | <br>  M   | <u> </u>                                      | <br>  M       | l<br>           | <br>   | М    | <br>  A        | М                | <br>  M_                     | <br>  <u>M</u>          | <br>  M    | M        | <br>  0           | M            |              | <br>  Q              | <br>                   | l<br>L                    | <br>  M                    | <br> M                    | <br>  M_           | <br><u> </u>                                 | <br>                    |
| MD-120         | M_   | <br>  M                                      | <br>  <u>M</u>      | <br>  м   | i<br>M  | <u> </u>                                      | M             | <br>            | <br>   | М    | _ A_           | М                | <u> </u>                     | M                       | M          | М        | <br>  0           | <br>         | [<br>        | <br>  0              | <br>                   | <br>                      | <br>  M                    | <br>  M                   | <br>  M            | 1<br>  | <br>                    |
| MD-128         | <br>  M_                                     | M  | <br>  M             | M   | <br>  <u> </u>                                    | <br>  | <br>  M       |                 | <br>   |      | <br>           | М                | <u> </u>                     | <br>  <u> </u>          | <u> </u>   | <u> </u> | <br>              |              | <u></u>      | <u> </u>             | l<br>!                 | †<br>!                    | <br>                       | <br>                      | <br><del> </del>   | !<br>!                                       | <br>                    |
| MD-135         | <br>  M                                      | <br>  M                                      | <br>  M             | <br>  M   | <br>  <u>M</u>                                    | !<br>!  | <br>  M       | [<br>           | <br>   |      | <br>           | М                |                              | <u> </u>                |            | М        | <u> </u>          | <br>         | <u> </u>     | <u> </u>             | <br>                   | <br><del> </del>          | <u> </u><br>               | <br>  M                   | <br>               | <br>   | <br>                    |
| MD-152         | <br>  M                                      | .<br>  <u>  M</u>                            | <br><u>  M</u> _    | <br>  <u>                                  </u> | [<br><u>                                     </u> | !<br>!  | M             | M               | <br>   | М    | _ A _          | М                | <u> </u>                     | <br>  <u> </u>          | <br>  M    | М        | <br>  <u> </u>    |              |              | <br>  <u>0</u>       | !<br><u></u>           | [<br>                     | <u> </u><br>               | <br>  <u>M</u>            | <u> </u>           | <br> A                                       | !<br>!                  |
| MD-165         | <u>                                     </u> | <br>  M                                      | <br>  <u>M</u>      | <br>  M   | <br>  <u> </u>                                    | <u> </u>                                      | <br>  M       |                 | !  <br>!!                                    | M    | <br>  <u> </u> | М                | <br>  <u>M</u>               | <br>  <u>M</u>          | <u> </u>   | M        | <br>  0           | l<br>        |              | <br>  0              | !<br>!                 | <br>                      | <u> </u>                   | <br>  M                   | <u> </u>           | !<br><u>L</u>                                | !<br><u> </u>           |
| MD-172         | <br>  M                                      | <br>  M                                      | <br>  M             | <br>  M   | <br>  <u> </u>                                    | !<br>!  | <br>  M       |                 | <br>   |      | <br>           | М                | <u> </u>                     | <br>  M_                | <u> </u>   | M        | <u> </u>          | !<br>        | <u> </u>     | !<br><del> </del>    | !<br>!                 | !<br>                     | <br>  M                    | <br>  <u> </u>            | !<br>              | !<br><u> </u>                                | <u> </u>                |
| MD-175         | M  | 1<br>  M<br>                                 | 1<br>  <u>M</u>     | <br>  M   | <br><u>  M</u>                                    | <u> </u>                                      | [<br>[ M ]    |                 | l  |      |                | М                | <br>                         | <br>  <u>  M</u> _      |            | М        | <u> </u>          | <br>         | <u> </u>     | <u> </u><br>         | <u> </u>               | !<br><u> </u>             | <br>  M                    | <br>  M                   | <u> </u>           | !<br>  | <u> </u>                |
| MD-176         | <u>  M</u>                                   | <br>  M                                      | !<br>  <u>M</u>     | <br>  M   | <u> </u>  | <u> </u>                                      | <br>  M       |                 | ! !<br>!!                                    |      | <br>           | М                | <br>                         | M                       | <u> </u>   | M        | !<br>             | <u> </u>     | i<br>        | <u> </u>             | <br>                   | <u> </u><br>              | <br>  M                    | <br>  <u> </u>            | 1<br>              | [<br>  | !<br>!                  |
| MD-194         | M  | M  | <br>  <u>M</u><br>  | <u> </u><br>  м                                 | M   | !<br>   | M             | <br>            | ! ;<br>! ;                                   |      |                | М                |                              | <br>  <u>M</u><br>      |            | М        | <u> </u>          |              | <br>         | <u> </u><br>         | !<br>!                 | !<br><u> </u><br>!        | M                          | <br>  M                   | !<br>!             | !<br><u> </u>                                | !<br>                   |
| MD-195         | <br>  M'<br>                                 | M<br>  | l<br><u>  M</u><br> | !<br>  M<br>                                    | <br>  <u>  M</u><br>                              | <u> </u>                                      | M             | <br>            |  | M    | _ A            | М                | <br>  <u>M</u>               | M.                      | M          | М        | <u>0</u>          | М<br>М       | l<br>l       | <br>  <u>0</u><br>   | '<br>                  | !<br>!<br>!               | M                          | <br>  <u>M</u><br>        | <br>  M _          | <u>                                     </u> | <u> </u><br>            |
| MD-198         | j m  | <u>                                     </u> | <u>  м</u>          | <u> </u><br>  м                                 | <u> </u>  | <u>.</u><br>                                  | М             |                 |  | М    | A ]            | М                | <u> </u>                     | M                       | <u>  M</u> | M        | 0                 |              | <u> </u><br> | <br>  Q<br>          | <u> </u><br> <br>      | <br> <br>                 | <u> </u>                   | <u>М</u>                  | <u> </u>           | <u> </u><br>                                 | <u> </u><br>            |
| MD-202         | <u>  M</u><br>                               | <u>  м</u><br>                               | <u>  м</u><br>      | M   | <u>м</u>  | <u> </u>                                      | <u>  M</u>    | · ·  <br>  <br> | <br>   | М    | A              | М                | M                            | <u>М</u>                | M          | M        | <u> </u>          |              |              | <u> </u>             | <br> <br>              | <u> </u><br>              | <u>і</u><br><u>Ім</u><br>І | <br>  <u> </u>            | <u> </u> м_        | <u> </u>                                     | <u> </u>                |
| MD-206         | į m  | j M  | <u> </u>            | M   | M   | <u>i                                     </u> | М             | <u> </u>        | <u>.                                    </u> |      | <u> </u>       | М                |                              | М                       |            | M        | <u>i</u>          | <u> </u>     |              | <u>i</u>             | <u>.</u>               | <u>.</u>                  | М                          | М                         | <u> </u>           | i A  | <u>.</u>                |

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Fecal Coli = fecal coliform

Total Coli = total coliform  $BOD_5 = 5$ -day biochemical

| Station<br>No. | <br> Temp<br>    | <br>  DO<br> | <br>  pH<br>                                     | <br> Salt<br>   | <br> Condt<br> | <br>  TSS<br> <br> | Turb     | <br> Color <br> | Trans          | <br> Alkl<br>  | <br> Hard <br> | BOD <sub>5</sub> | <br>  NH <sub>3</sub><br>  NH <sub>4</sub>      | <br>  NO <sub>2</sub><br>  NO <sub>3</sub> | <br> TKN | ΤP       | <br>  TOC  <br>                                  | <br>  Cl  <br> | Phen              | <br> Metals<br> <br> | <br> Pest<br> PCBs<br> | <br>  Other<br>  Org*<br>                    | <br>  Total<br>  Coli<br> | <br>  Fecal<br>  Coli<br> | <br> Flow  <br>  | Sed  | <br>  Sed<br>  Org*<br> |
|----------------|------------------|--------------|--|-----------------|----------------|--------------------|----------|-----------------|----------------|----------------|----------------|------------------|---|--|----------|----------|--|----------------|-------------------|----------------------|------------------------|--|---------------------------|---------------------------|------------------|--|-------------------------|
| MD-207         | <br>  M          | <br>  M_     | <br>  <u>м</u>                                   | <br>  M         | M              | <br> <br>          | M        |                 |                | <br>           | [              | м                |   | M  |          | М        |  |                |                   | <br>                 | <br>                   | l<br>L                                       | <br>  <u>M</u>            | <br>  <u>M</u>            | <br>             |  | <br><b> </b>            |
| MD-208         | <br>  M          | <br>  M      | <br>  M  | <br>  M         | <br>  M        | l<br>1             | M        | l<br>L          |                | <br>           |                | М                | <br>  | M  | <br>     | M        | <br>   | <br>           |                   |                      | <br>                   | <br>   | <br>  м                   | <br>  M                   | l<br>L           | <br>   | !<br><b>L</b>           |
| MD-209         | <br>  <u>M</u>   | <br>  M      | <br>  м  | <br>  M         | <br>  M_       | <br>               | M        | l               |                |                |                | М                | l<br>L  | M  |          | М        | <br>   |                |                   | <u> </u>             | <br>                   | l<br>L                                       | <br>  <u> </u>            | <br>  M                   | <br>             | A  | <u> </u>                |
| MD-210         | <br>  _ m        | <br>  M      | <br><u>  м</u>                                   | <br>  M         | <br>  M        | <br>               | <br>! M  | i<br>!          | <u> </u><br>   | <br>           | <br>           | М                | l<br>L  | M  | <br>     | М        | <br>   | <br>           | <br>              | <br>                 | <br>  _ A              | <br>   | <br>  M                   | <br>  M                   | <br>             | <b>A</b>   | <u> </u>                |
| MD-211         | <br>  M          | <br>  M      | <br>  M  | <br>  <u>M</u>  | <br>  <u>M</u> | !<br>              | M        | i :             |                |                |                | М                | <br><u> </u> -                                  | <br>  <u>M</u>                             |          | M        | <br>   | <br>           | 1                 | <u> </u>             | !<br>!                 | l<br>!                                       | <br>  M                   | <br>  M                   | <br><del> </del> | <u> </u>   | !<br><del> </del>       |
| MD-217         | <br>  M          | <br>  M      | <u> </u>   | <br>  M         | <br>  <u>M</u> | !<br>!             | <br>  M  |                 |                | M              | A              | М                | [<br>  M  | <br>  <u> </u>                             | M        | М        | <br>  <u>0</u>                                   | M              |                   | 0                    | !<br>!                 | <br>   | <u> </u>                  | <br>  M                   | l<br><u>I</u>    | ł<br>L   | <u> </u>                |
| MD-240         | <br>  M          | <br>  M      | <u> м</u>  | <br><u>  м</u>  | <br>  M        | <br>               | <br>  M  |                 | <u> </u>       | M              | <br>  A        | М                | <br>  M   | <br>  <u> </u>                             | M        | <u> </u> | 0  | l<br>!         |                   | 0                    | <br>  A                | <br> A                                       | <u> </u><br>              | <br>  <u>M</u>            | !<br>!           | <br>   | <u> </u>                |
| MD-241         | <br><u>  м</u> _ | <br>  M      | <br>  <u>M</u>                                   | I<br><u>I м</u> | <br> M         | l<br>              | <br>  M  |                 | <u> </u>       | M              | <br>  <u> </u> | М                | <br>  _ M                                       | <br>  <u> </u>                             | 1<br>1 M | М        | <br>  <u>0</u>                                   | <br>           | ·<br>             | <br>  0              | !<br>!                 | <br>   | <br>  M                   | <br>  M                   | I<br><u>1 м</u>  | A .  | <u> </u>                |
| MD-242         | <br>  M          | <br>  M      | <br>  M  | <br>  M         | <br>  M        | l<br>              | <br>  M  | <u> </u>        | <u> </u>       | <u> </u>       | <br>           | М                | <br>  | <br>  <u>M</u> _                           |          | M        | <br>   | l<br>L         | ļ                 | <u> </u>             | !<br>!                 | <u> </u>                                     | <br>  M                   | <br>  M                   | !<br>!           | !<br>!   | <u> </u>                |
| ST-001_        | М                | M            | <br>  <u>M</u>                                   | <br>            | <br>  <u> </u> | <br>  M            | <br>  M  | l<br>           | <u> </u>       | M              | <br> _A_       | М                | <br>  <u>M</u>                                  | <u> </u>                                   | <br>  M  | М        | <br>  <u>                                   </u> | <br>  <u>M</u> |                   | <br>  <u> </u>       | <br>  A                | <u>                                     </u> | <u> </u><br>              | <br>  M                   | <u> </u>         | <br>   | -                       |
| ST-005         | <br>  M          | <br>  M      | <br>  <u>M</u>                                   | <br><u>  M</u>  | <br>  <u> </u> | <br>               | M        | <br>            | <u> </u>       | <br>           | <br>           | М                | !<br>!  | <u> </u>                                   | <u> </u> | M        | !<br>!   | !<br>!         |                   | <u> </u>             | <u> </u><br>           | <u> </u><br>                                 | <br>  <u>M</u>            | <br>  M                   | <u> </u>         | !<br>!   | <u> </u><br>            |
| \$T-006        | M                | <br>  M      | <u> </u>   | <br>            | <br>  <u> </u> | ]<br>              | <br>  .M |                 |                | <br>  M        | <br>  A        | М                | <br>  <u> </u>                                  | <u> </u>                                   | <br>  M  | М        | <br>  <u>a</u>                                   | <u> </u>       |                   | <br>  Q              | !<br>!                 | !<br>!                                       | <u> </u>                  | <br>  <u>M</u>            | <br>  M          | !<br><u>                                      </u> | <u> </u>                |
| ST-007         | <br>  M_         | I<br>I M     | <br>  <u> </u>                                   | <u> </u>        | <br>           | !<br>!             | <u> </u> | l<br>           |                | <u></u>        | <br>  A        | м                | !<br>!  | <u> </u>                                   | <u> </u> | <u> </u> | !<br>  | l<br>          | <br>  <u> </u>    | <br>  A              | 1                      | !<br>!                                       |                           | <br>  M                   | !<br>!           | <br>   | <u> </u>                |
| ST~016         | <br>  M          | <br>  M      | <br>  <u>                                   </u> | !<br>!          | <br>           | <br>               | <br>  H  | <u> </u>        | <br>  <u> </u> | <br>  <u> </u> | <br> _A_       | М                | <br><u>                                    </u> | <br>  <u> </u>                             | <br>  M  | М        | <br>  Q  | !<br><u> </u>  | <br>              | <br>  Q              | !<br>!                 | ! .<br>!                                     | <u> </u>                  | ]<br>  M                  | <br>  <u>M</u>   | <br> ^   | <u> </u>                |
| sv-191         | M                | l<br>I M     | <br>  <u> </u>                                   | <u> </u>        | <br>           | !<br>!             | <br>  M  | l<br>           |                | M              |                |                  | •   |  |          |          |  |                | <br>  <u>.</u> @_ | <br>  Q              | I A                    | <u> </u>                                     | <u> </u><br>              | M = sedi                  | M                | I<br>  _ A   | 1<br>1                  |

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

DO = dissolved oxygen

TOO ... to to the control of the con

TSS = total suspended solids

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

TKN = total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics
Cl = chlorides

pH = pH

Trans = transparency

Alk = alkalinity

TP = total phosphorus
TOC = total organic carbon

 $\begin{array}{ll} \text{NH}_{3} & \text{NH}_{4} & = \text{ ammonia} \\ \text{NO}_{2} & \text{NO}_{3}^{4} & = \text{ nitrate-nitrite} \\ \end{array}$ 

Sed = sediment (routine)
Sed Org = sediment organics
Metals = heavy metals
Fecal Coli = fecal coliform

Total Coli = total coliform

BOD<sub>5</sub> = 5-day biochemical oxygen demand

Sample Stations: Columbia

| Station<br>No. | <br> Temp<br> | ]<br>] DO<br>] | <br>  pH<br>    | <br> Salt <br> <br> | <br> Condt<br> | <br>  TSS<br>  | <br> Turb<br> <br> | <br> Color<br> <br> | <br> Trans <br> <br> | Alkl | <br> Hard <br> | BOD <sub>5</sub> | <br>  NH <sub>3</sub><br>  NH <sub>4</sub> | <br>  NO <sub>2</sub><br>  NO <sub>3</sub> | <br> TKN  | TP | <br>  TOC<br>  | Cl            | <br>  Phen | <br> Metals<br> <br> | <br> Pest  <br> PCBs  <br> | <br>  Other<br>  Org*<br> | <br>  Total<br>  Coli | <br>  Fecal<br>  Coli | •          | <br>  Sed<br> <br> | <br>  Sed<br>  Org*<br> |
|----------------|---------------|----------------|-----------------|---------------------|----------------|----------------|--------------------|---------------------|----------------------|------|----------------|------------------|--|--|-----------|----|----------------|---------------|------------|----------------------|----------------------------|---------------------------|-----------------------|-----------------------|------------|--------------------|-------------------------|
| B-047          | <br>  M       | l<br>M         | l<br>M          | İ                   |                | <br> <br>      | M                  |                     | <br> <br>            |      |                | М                |  | М  |           | М  |                | <br>  ·  <br> |            | l<br>!               | l<br>!                     |                           | ļ<br>L                | <br>  M               | ļ<br> <br> | <br>               | [<br>[                  |
| B-054          | <br>  M_      | <br>  M        | ј<br>  <u>м</u> | [<br>               | <br>  <u> </u> | <br>  <u> </u> | <br>  <u>M</u>     | <br>                | <br>                 | M    | <br>  A        | <u> </u>         | <br>  M                                    | <br>(M                                     | <br>  M   | M  | <br>  <u> </u> |               | l<br>L     | 1 0                  | <br>  A                    | <br> a                    | l<br>                 | <br>  <u>M</u>        | <br>  м    | <br>               | ]<br>]a                 |
| B-072          | <br>  M       | ]<br>  M       | ј<br>  м_       | ]<br>i              | j<br>L         | ]<br>L         | <br>  M            |                     | ]<br>                |      |                | М                | <br>                                       | <br>  M                                    | <u> </u>  | M  | <br>           |               | <br>       | l .                  | [<br>[                     | l                         | <br>                  | <br>  M               | l<br>L     | l ·                | l<br>L                  |
| B-077          | <br>  M       | <br>  M        | <br>  M         |                     | }<br>L         | l<br>L         | <br>  <u>M</u>     | )<br>1              | ] .<br>              |      | <br>  A        | М                | ļ<br>L                                     | <br>  M                                    | <u> </u>  | М  | <br>           |               | <br>       | <br>  A              | <br>                       | <br>                      |                       | <br>  M               | <br>       | -<br> A            | [<br>                   |
| в-080          | [<br>  M      | M              | <br>  M_        |                     | <br>           | l<br>!         | <br> <br>  M_      | 1                   |                      | М    | <br>  A        | М                | <br>  M_                                   | <br>  M                                    | }<br>  M: | М  | <br>  Q        | <br>          |            | ]<br>] Q             | !<br>                      | ļ<br>1                    | )<br>                 | ]<br>  M              | l<br>M     | !<br>!             | <br>                    |
| B-110          | <br>  M       | <br>  M        | М               |                     | <br> <br>      | i<br>          | M                  | <br>                |                      |      |                | М                | [<br>[                                     | L M  |           | М  | <b>!</b>       |               | <br>       | l<br>1               |                            |                           | ]<br>                 | <br>  _ M             | <br>       | <br>               | }<br>L                  |
| B-123          | M             | <br>  M        | <br>  M_        |                     | ]<br>[         | i<br>!         | l<br>M             | <b>l</b><br>1       |                      |      | <br>           | м                | <br>                                       | l<br>l m                                   | ·         | М  | <br>           |               | <br>       | [<br>                |                            | [<br>                     | i<br>L                | <br>  M               | i<br>1     | İ                  | !<br>L                  |
| B-145          | <br>  M       | <br>  M        | <br>  M_        |                     |                | i<br>I         | <br>  M            | <br>                |                      |      |                | м                | l  | L M  | <b> </b>  | М  | <br>           |               | <br>       | ]<br>                | <br>                       | <br>                      | ]<br>                 | <br>  M               | <br>  •    | 1<br>1             | <br> <br>               |
| B-236          | <br>  M_      | <br>  M        | M               |                     | M              | <br>  M        | <br>  M            | ]<br>[              |                      | M    | <br>  A        | м                | M  | <br>  M_                                   | <br>  M   | M  | <br>  M        |               |            | <br>  Q              | <br>  A                    | <br>  A                   | <br>                  | <br>  M               | ]<br>] м   | ]<br>]_A_          | l<br>L A                |
| B-280          | ]<br>  M_     | <br>  M        | M               | <br>                |                | <b> </b>       | l<br>M             | <br>                | ]<br>                | М    | <br>           |                  | <br>                                       | <br> <br> M                                | M         | М  | l<br>Q         | <br>[         | <br>       | <br>  Q              | <br>                       | <br>                      | <br>                  | <br>{ M               | <br>  M    | l .<br>L           | l<br>L                  |
| B-316          | l<br>L m      | <br>  M        | <br>  M_        |                     |                | l<br>1         | j<br>I M           | ]<br>               | ]<br>                |      |                | М                | j<br>                                      | <br> <br>  M                               |           | М  | <br>           |               | <br>       | <br>                 | <br>                       | <br>                      | <br> <br>             | <br>  M               | !          | <br> <br>  A       | l<br>L                  |
| B-327          | <br>  M       | <br>  M        | M_              |                     | <br> <br>      | l<br>L         | . M                | †<br>               | <br>                 | М    | <br>  A        | _ M              | ]<br>  M                                   | )<br> M                                    | <br>  M   | М  | ]<br>  Q       |               | <br>       | ]<br>  q             | j<br>                      | <br>                      | ]<br>                 | <br>  M               | ļ<br>1     | <br>               | l<br>1                  |
| B-328_         | !<br>  M_     | <br>  M        | M_              |                     | <br>           | l<br>l         | M                  | 1                   | <br>[ [              | _M   | <br>  A_       |                  | l M  | <br>  M                                    | <br>  M   | М  | <br>  _0       |               | <br>       | <br>  Q              |                            | <br> <br>                 | }<br>                 | [<br>] м              | 1          | ]<br>              | ]<br>1                  |
| C-001          | <br>  M       | <br>  M        | м               |                     | l              | <br>           | M                  | <br>                | -  <br>              | М    | A              | м                | <br>  M                                    | M  | <br>  M   | М  | <br>  Q        |               | <br>       | <br>  0              | [<br>                      | i .                       | †<br>                 | [<br>  M              | i<br>i m   | 1                  | 1                       |
| C-005          | <br>  M_      |                | M               |                     |                | <br> <br>      | М                  |                     |                      |      |                | м                | <br> <br>                                  | <br> <br>  M                               | <br>      | М  |                |               | <br>       | <u> </u>             | <br> <br>                  |                           | 1                     | l<br>I M              | [          | 1                  | [<br>1                  |

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Temp = temperature

DO = dissolved oxygen

= total suspended solids TSS

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

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Alk = alkalinity

= total phosphorus

TOC = total organic carbon

Sed = sediment (routine)

Sed Org = sediment organics

Metals = heavy metals

Fecal Coli = fecal coliform Total Coli = Total Coliform

BOD<sub>5</sub> = 5-day biochemical

Sample Stations: Columbia

| Station<br>No. | Temp  | DO<br>  • | pH             | Salt<br> <br> | Condt <br> | TSS      | Turb           | Color<br> | Trans        | Alkl | Hard  | BOD <sub>5</sub> | NH<br>  NH<br>  NH<br>4 | NO<br>  NO<br>  NO<br> | TKN     | ΤP             | тос<br> <br>   | cl<br> <br> | Phen<br>  | Metals<br> <br> | Pest<br>PCBs      | Other<br>Org* | Total<br>  Coli | Fecal<br>  Coli  | Flow           | Sed<br>      | Sed<br>  Org     |
|----------------|---|-----------|----------------|---------------|------------|----------|----------------|-----------|--------------|------|---|------------------|-------------------------|------------------------|---------|----------------|----------------|-------------|---|-----------------|-------------------|---------------|-----------------|------------------|----------------|--------------|------------------|
| C-007          | <br>  M   | <br>  M   | <u> </u>       | <br>          | M          | M        | <br>  <u>M</u> | <br>      | <br>         | М    | <br>  A                                       | М.               | <br>  M                 | <br>  <u> </u>         | <br>  M | M              | <br>  M        | l<br>L      | l<br>L  | <br>  0         | <br> a            | <br> A        | <br>            | [<br>  M         | <br>  <u> </u> | <br>         | <br>             |
| c-008          | <br>  M   | M         | <br>  <u>M</u> | <br>          | <u> </u>   |          | <br>  <u>M</u> | [<br>[    |              | М    | LA  | М                | <br>  <u>M</u>          | <br>  M                | M       | M              | <br>  Q        | l<br>I      | <br>  | <br>  Q         | <br>              | l<br>         | !<br>!          | <br>  <u>M</u>   | <u> </u>       | <br>         | <u> </u>         |
| <u>c-017</u>   | <br>  M   | <br>  M   | <br><u> </u> м | l<br>I        | <u> </u>   |          | <br>  <u>M</u> | <br>      | <b> </b><br> | М    | <br>  A                                       | м                | <br>  M _               | <br> M                 | M       | <u> </u>       | <br>  <u> </u> | <br>        | l<br><u>l                                    </u> | <br>  <u> </u>  | <br><del> </del>  | !<br>!        | l<br><u>L</u>   | ! M              | <br>  <u> </u> | <u> </u>     | <br><del> </del> |
| C-021          | <br>  M   | <br>  M   | <br>  M        | <br>          |            | <u> </u> | M              | <br>      | <br> 1       |      |   | М                | <br>                    | <br>  M                | <br>    | <br>  <u>M</u> | <br>           | l<br>L      | <br>  | <u> </u>        | <u> </u>          | <br>          | <br>            | <br>  M          | <br>           |              | <u> </u>         |
| c-022          | <br>  M   | М         | M              |               |            |          | M              | <br>      | <br>         |      | <br>  | М                | <br>                    | <br>  M                | !<br>!  | <u> </u>       | <br>           | !<br>       | l<br>!  | !<br>!          | !<br><del> </del> | l<br>         | <br>            | <br>  <u>  M</u> | <br>           | <br>         | <u> </u>         |
| C-025          | <br>  M   | M         | M              | <br>          |            |          | M              | <u> </u>  | <br>         |      | <br>  | М                | <u> </u>                | <br>  <u>M</u>         |         | M              | <br>           | !<br>       | l<br>L  | <u> </u><br>    | !<br>!            | !<br>!        | !<br>!          | <br>  M          | "<br>          | <u> </u>     | <u> </u>         |
| C-048          | <br>  M   | М         | <u> </u>       |               | <br>       | l<br>L   | <br>  M        | l<br>L    |              |      | <br>  | М                | l<br>L                  | <br>  м                |         | M              | <br>           | <br>        | <br>  | <br>            | l<br>L            | l<br>         | <br>            | <br>  M          | <br>           | <br>         | <br><del> </del> |
| c-058          | <br>  M   | M         | <br>  M        | <br>          | <br>       | <u> </u> | <u> </u>       |           |              |      |   | М                | l<br>                   | <br>  <u> </u>         | <br>    | <u> </u>       | <br>           | <br>        | <br>  | <u> </u>        | <br>              | <br>          | <u> </u>        | <br>  M          | <br>           | .<br>        | <br><del> </del> |
| C-061          | <br>  <u>                                  </u> | <br>  M   | <br>  <u> </u> | !<br>         | . <br>     | <br>     | М              | <br>      |              |      |   | М                | l<br>L                  | <br>  M                | !<br>   | M              | <br>           | <br>        | !<br>!  | <br>            | l<br>L            | l<br>L        | <br>            | <br>  M          | ļ<br>          | <u> </u>     | <u> </u>         |
| C-063          | <br>  M   | M         | <br>  <u>M</u> | <br>          |            | <br>     |                | <br>      | <br>         |      |   | м                | {<br>                   | <br>  <u> </u>         | <br>    | <u> </u>       | <br>           | <br>        | l<br>L  | <br>            | <br>              | l<br>1        | <br>            | M                | <br>           | <u> </u>     | <u> </u>         |
| C-066          | <br>  M   | <br>  M   | <br>  <u> </u> | <br>          | <br>       | <br>     | <br>  <u>H</u> | <br>      | <br>         |      | <br>  | М                | ]<br>                   | <br><u>  м</u>         | !<br>   | <br>  <u> </u> | !<br>          | <br>        | <br>  | l<br>           | <br>              | <br>          | <u> </u>        | M                | <br>           | <u> </u><br> | <u> </u>         |
| C-067          | ј<br>  м  | ]<br>  M  | <br>  <u> </u> | }<br>         | !<br>      | <br>     | <br>  <u> </u> | <br>      | <br>         |      | <br>  | М                | !<br>!                  | M                      | !<br>   | <u> </u>       | }<br>L         | !<br>L      | !<br>!  | <br>            | <br>              | <br>          | <br>            | ]<br>] M         | <br>           | ]<br>        | <br>             |
| C-068          | <br>  M   | <br>  M   | <br>  <u> </u> | <br>          |            |          | <br>  <u> </u> | <br>  M   | <br>         | М    | <br>  <u>                                </u> | М                | <br>  <u>M</u>          | <br>  <u> </u>         | M       | <br>  <u> </u> | <br>  <u> </u> | <br>        | l<br>L  | <br>  Q         | <br>  A           | <br>  A       | <br>  <u> </u>  | <br>  <u>  M</u> | l<br>L         | i<br>!       | l<br>L           |
| C-069          | <br>  M   | <br>      | <br>  M        | ] [           |            |          | <br>  M        |           |              |      |   | м                | i                       | i<br>i m               |         | l<br>I Me      |                |             | !   | !               |                   | 1             | ļ               | <br>  M          | <br>           |              | 1                |

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

DO = dissolved oxygen

= total suspended solids TSS

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

= total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics

= chlorides

= pH

Trans = transparency

Alk = alkalinity

= total phosphorus

TOC = total organic carbon

 $\begin{array}{ll} \mathrm{NH_3} & \mathrm{NH_4} & = \mathrm{ammonia} \\ \mathrm{NO_2} & \mathrm{NO_3} & = \mathrm{nitrate-nitrite} \end{array}$ 

Sed = sediment (routine)

Sed Org = sediment organics

Metals = heavy metals

Fecal Coli = fecal coliform

Total Coli = Total Coliform

 $BOD_5 = 5$ -day biochemical

Sample Stations: Columbia

| Station<br>No. | <br> Temp<br>   | <br>  DO<br>    | <br>  pH<br>   | <br> Salt<br> <br> | <br> Condt<br> <br> | <br>  TSS<br>   | <br> Turb<br> <br> | <br> Cotor<br> <br> | Trans    | Alkl     | <br> Hard <br> | BOD <sub>5</sub> | <br>  NH<br>  NH<br>  NH<br> | <br>  NO<br>  NO<br>3 | <br> TKN<br>   | <br>  TP<br>                                    | <br>  TOC<br>                                    | <br>  Cl<br> | <br>  Phen<br> | <br> Metals<br> | <br> Pest<br> PCBs<br> | <br>  Other<br>  Org*<br> | <br>  Total<br>  Coli<br> | <br>  Fecal<br>  Coli | •                 | <br>  Sed<br>     | <br>  Sed  <br>  Org* <br>                   |
|----------------|-----------------|-----------------|----------------|--------------------|---------------------|-----------------|--------------------|---------------------|----------|----------|----------------|------------------|------------------------------|-----------------------|----------------|---|--|--------------|----------------|-----------------|------------------------|---------------------------|---------------------------|-----------------------|-------------------|-------------------|--|
| CSB-001L       | М               | l M             | м              | <u> </u>           | M                   | <br>  M         | ]<br>  M           |                     |          | М        | A              | М                | <br>  M                      | М                     | M              | ј<br>  м  | <br> м_  | ]<br>        | )<br>          | ]<br>  0        | A                      | ]<br>  A                  | İ<br>L                    | <br>  M               | <u> </u>          | <br> A            | <br>  A                                      |
| CSB-001R       | <br>  M         | <br>  M         | <br>  <u>м</u> | <u> </u>           | <br>  м             | •<br>  M        | M                  | l<br>               | <br>     | M        | <br>  A        | М                | <br>  M                      | <br>  <u>M</u>        | <br><u>  м</u> | <br>  <u>M</u>                                  | <br><u>  м</u>                                   | <br>         | l<br>L         | <br>  <u> </u>  | <br> A                 | <br>  A                   | -                         | <br>  M               | <br>  <u>M</u> _  | <br>              | [  |
| CW-040         | <br>  M         | <br>  M         | Н              | <br>               | <br>                | l<br>L          | <br>  M            | l<br>               | <br>     |          | <br>  A        | м                | l<br>L                       | <br>  <u> </u>        | <br>           | <br>  <u>M</u>                                  | l<br>L   | <br>         | <br>           | !<br>!          | <br>                   | <br>                      | <u> </u><br>              | <br>  <u> </u>        | !<br>!            | l<br>L            | [  |
| CW-206         | ]<br>  M        | ]<br><u>  M</u> | <br>  <u>M</u> | <u> </u>           | <br>  <u>M</u>      | <u> </u><br>  м | <br>  M            | <br>                | <br>     | M_       | <br>  A        | M                | <br>  <u>M</u>               | <br>  <u>M</u>        | <br>  <u> </u> | <br><u>  м</u>                                  | <br>  <u> </u>                                   | <br>         | l<br>!         | <br>  <u>0</u>  | <br>  A_               | <br>  <u> </u>            | !<br>!                    | M                     | <br>  M_          | <br> A            | <u>                                     </u> |
| CW-207         | <br>  M         | <br>  M         | <br>  м        | <br>               | <br>                | l<br>L          | <br><u>  м</u>     | <br>                | <u> </u> | М        | _ A_           | М                | <br>  M                      | <br>  <u> </u>        | <br>  <u>M</u> | <br>  <u>M</u>                                  | <br>  <u> </u>                                   | <br>         | 1<br>L         | <br>  <u> </u>  | <br>  Å                | l<br>L                    | <u> </u><br>              | <br>  M               | <u> </u><br>      | <br> A            | <br>   |
| CW-208         | <br>  M         | [<br>  M        | <u>м</u>       | <br>               | <br>                | <br>            | <br>  M            | <br>                | <br>  M  | М        | _ A_           | М                | <br>  <u> </u>               | <br>  <u>M</u>        | <br>  M        | <br>  M   | <br>  <u> </u>                                   | l<br>        | <br>           | <br>  <u> </u>  | <br>                   | <u> </u>                  | I<br>L                    | [<br>  M              | !<br>             | <br>  A           | <br>   |
| CW-209         | <br>  M         | <br>  M         | <br>  м        | <u> </u>           | \<br>               | \<br>L          | <br>  M            | \<br>               | M        | М        | A .            | М                | !<br>1_м_                    | <br>[ <u>м</u> _      | [ M            | <br>  M   | <br>  0  | <u> </u>     | l<br>L         | 1 0             | <br>                   | <u> </u><br> -            | <u> </u>                  | M                     | !<br>!            | \<br>             |  |
| CW-222         | <br>  M         | <br>  M         | <br>  <u>M</u> | <br>               | <br>  м             | <br><u> </u> м  | <br>  M            | M                   | [<br>[   | M        | _ A _          | М                | <br>  M                      | <br>  M               | <br>  M        | <br>  <u>M</u>                                  | <br>  <u> </u>                                   | <u> </u><br> | <br>  M        | <br>  M -       | <br>  A_               | <br>  A                   |                           | <br>  M               | l<br>!            | <br>              | <u> </u>                                     |
| E-034          | [<br>  M        | <br>  M         | M              | <br>               | 1<br>               | l<br>L          | <br>  M            | [<br>               | [<br>    |          | [              | М                | (<br>                        | <br>  M               | /<br>          | <br>  <u>M</u>                                  | !<br>!   | !<br>!       | l<br>          | <u> </u>        | ł<br>                  | <br>                      | <u> </u><br>              | <br>  M               | !<br><del>!</del> | !<br>!            |  |
| E-035          | М               | <br>  M         | <br>  <u> </u> | <br>               | <br>                | l<br>L          | <br>  M            |                     | <br>     | <u> </u> | <br>  A        | М                | l<br>Ł                       | M                     | <br>           | <br>  <u>                                  </u> | <br>   | l<br>!       | !<br>          | <br>            | l<br>                  | <u> </u>                  | <u> </u>                  | ]<br>  M              | <br>              | <br>              | !<br>!                                       |
| E-101          | <br>  M_        | <br>  M         | <br>  <u> </u> | <br>               | l<br>L              | !<br>!          | <br>  M            | ]<br>]              | <br>     |          | <br> _A_       | M                | !<br>!                       | <br>  <u> </u>        | <br>           | <br>  M   | <br>   | <br>         | l<br>L         | <br>            | <br>  <u> </u>         | <br>                      | <u> </u>                  | <br>  M               | !<br>!            | I<br><u> </u> _^_ | !<br>!                                       |
| s-042          | <br>  M         | <u> </u>        | <u> </u>       | <u> </u><br>       | ł<br><u> </u>       | ł<br>1          | <br>  M            | <u> </u>            |          | М        | <br>  <u>A</u> | <u> </u>         | <br>  <u>  M</u>             | <br>  _ M             | <br>  <u> </u> | <br>  M   | <br><u>                                     </u> | }<br>        | !<br>!         | <u> </u>        | !<br>                  | !<br>!                    | <u> </u>                  | ]<br>] <u>M</u>       | <br>  M           | <br>              | <br>   |
| s-044          | <br>  M         | <br>  M         | <br><u>  м</u> | <br>               | <u> </u>            | <br>            | <br>  <u>M</u>     | !<br>!              | <br>     |          |                | м                | l<br>!                       | <br>  <u> </u>        | !<br>!         | <br>  <u> </u>                                  | <br>   | <br>         | !<br>!         | !<br>!          | <br>                   | <u> </u>                  | <br>                      | <br>  <u>M</u>        | !<br>!            | !<br>!            | !<br><del>!</del>                            |
| s-099          | <br>  M         | <br>  M         | <br>  <u> </u> | <br>               | <br>                | <u> </u><br>    | <br>  M            | <br>                |          |          | <br>           | М                | l<br><u> </u>                | <u> </u>              | <br>           | <br>  <u>M</u>                                  | <br>   | !<br>        | l<br><u> </u>  | !<br>!          | l<br>                  | <u> </u>                  | <u> </u>                  | <br>  M               | !<br><del> </del> | !<br>!            | <u>!</u>                                     |
| s-102          | ј<br><u>  м</u> | <br>  M         | <u> </u>       | !<br>              | !<br>!              | !<br>L          | ]<br>  M           | ]<br>[]             | <br>     |          | <br>           | М                | l<br>L                       | <br>  M<br>  Sol+     | l<br>L         | <br>  <u>M</u>                                  |  | <u> </u><br> | <br>           | <u> </u>        | l<br>L                 | <br>                      | <br>                      | <br>  M<br>  sedi     | !<br>             | I<br>L            | <br>   |

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

= dissolved oxygen DO

TSS = total suspended solids

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Salt = salinity

Condt = conductivity

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Turb = turbidity Other = other organics

= chlorides

= pH

Trans = transparency

= alkalinity

= total phosphorus

TOC = total organic carbon

 $NH_3 NH_4 = ammonia$  $NO_2 NO_3 = nitrate-nitrite$ 

Sed = sediment (routine)

Sed Org = sediment organics Metals = heavy metals

Fecal Coli = fecal coliform

Total Coli = total coliform  $BOD_5 = 5$ -day biochemical

| Station<br>No. | Temp   | <br>  DO<br> <br>                             | <br>  pH<br> <br> | <br> Salt<br> <br>                               | <br> Condt<br> <br>                            | i<br>  TSS<br> <br>                          | <br> Turb <br> <br>                           | Color    | l<br>Trans A<br> <br> | \lkl | <br> Hard <br> | BOD <sub>5</sub> | <br>  NH<br>  NH<br>  NH <sub>4</sub>         | NO <sub>2</sub><br>NO <sub>3</sub> | TKN          | TP       | <br> TOC<br> <br>                            | Cl   | Phen         | <br> Metals<br> <br>                         | Pest<br> PCBs                                 | Other<br>Org*                                | Total<br>  Coli                                | Fecal<br>Coli                                | Flow   | Sed  | Sed<br>Org                                   |
|----------------|--|---|-------------------|--|--|--|---|----------|-----------------------|------|----------------|------------------|---|------------------------------------|--------------|----------|--|--|--------------|--|---|--|--|--|--|--|--|
| S-149          | i<br>I M                                     | <br> <br>  M                                  | <br> <br>  M      | l  | <br> <br>                                      | <br>   | <br>   <br>  M                                |          |                       |      |                | м                |   | M                                  |              | М        |  | l  |              | l<br>I                                       | <br> <br>                                     | [<br>1                                       | <br>   | M  | [<br>[                                       | l .  | <br>   |
|                | 1  | l   |                   | !  |  | <u> </u>                                     |   |          | ļ                     |      |                |                  |   |                                    | !            |          | İ  | .  |              | I  | ļ   | ļ  |  |  |  |  | İ  |
| s-150          | <u>M</u><br>                                 | <u>  M                                   </u> | <u>M</u><br>      | <u>                                      </u>    | L  | <u>                                     </u> | <u> </u>                                      |          |                       |      |                | M                | !<br>   | М                                  | l            | M        | <br>   | I  | <br>         | l<br>  | !<br>   | <u>                                     </u> | l  | <u> </u>                                     | <br>   |  | <u>                                     </u> |
| s-151          | <u>i</u> m                                   | <u>M</u>                                      | <u> </u>          | <u>i                                     </u>    | <u>i                                      </u> | <u>.</u>                                     | M   | <u>_</u> | <u> </u>              |      |                | М                | <u> </u>                                      | М                                  | <u> </u>     | М        | ļ  | <u>                                       </u> | l            | <u> </u>                                     | <u>L</u>                                      | <u> </u>                                     | <u> </u>                                       | <u> </u>                                     | <u>                                     </u> | <u> </u>                                     | <u> </u>                                     |
| s-152          | <br>  M                                      | <br>  M                                       | <br>  <u>M</u>    | !<br>  | <u> </u>                                       | ļ<br>  | M   | <u> </u> |                       |      | <u> </u>       | М                | <u> </u><br>                                  | <u> </u>                           | l<br>L       | M        | <u> </u><br>                                 | !<br>!   | <u> </u>     |  | <u> </u>                                      | <u> </u>                                     | <u> </u>                                       | М  |  |  | <u> </u>                                     |
| s-204          | <br>  M                                      | <br>  M                                       | <br>  M_          | <br>   | <br>   | l<br>!                                       | <br>  M                                       |          | <br>                  | M    | <br>  A        | М                | <br>  M                                       | <u> </u>                           | <br>  M      | M        | <br>  Q                                      | †<br><u>L</u>                                  | <br>!        | <br>  0                                      | <br>  A                                       | -<br>  | l<br><u>l</u>                                  | <u> </u>                                     | !<br>!                                       | l<br><u>La</u> _                             | <br>   |
| s-211          | <br>  M                                      | l   | <br>  M           | 1  |  | 1  | <br>  |          |                       |      |                | M                | 1   | l M                                |              | M        |  |  | ]<br>        |  | <br>  | ]<br>I                                       | 1  | <br>  M                                      | <br>   | <br>   | <br>   |
|                | ł  | 1   | l                 | 1  | 1  | <br>   |   |          |                       |      |                |                  | l   | <br>                               |              |          |  | !  | l<br>        | İ  |   | ļ  | !  |  | <u> </u>                                     |  |  |
| s-212          | <u>M</u><br>                                 | <u>  M</u><br>                                | <u>  M</u>        | <del>                                     </del> | <u> </u>                                       | <u> </u>                                     | <u>  M  </u><br>                              |          |                       |      | <u> </u>       | М                | <br>I   | <u>м</u><br>                       | <u> </u><br> | M        | <br>   | <u> </u><br> -                                 | <u> </u>     | <u> </u>                                     | <br>  |  | <u>                                       </u> | <u>                                     </u> | <br>   | <br>   | <u> </u>                                     |
| s-213          | <u> </u>                                     | M   | <u> </u>          | <u>i</u>   | <u>i</u>                                       | <u> </u>                                     | М   |          | i                     |      |                | М                | <u>i                                     </u> | M                                  | <u> </u>     | M        | <u> </u>                                     | <u> </u>                                       | <u> </u><br> | <u> </u>                                     | <u> </u>                                      | <u>                                     </u> | <u> </u>                                       | <u>  M</u>                                   | <u> </u>                                     | <u> </u> -                                   | <u> </u>                                     |
| s-223          | <br>  <u>H</u>                               | I<br>M  | !<br>  <u>M</u>   | <u> </u>   | <u> </u>                                       | !<br>  | M   | I        |                       | M    | A              | M                | I<br>I M                                      | M                                  | M            | М        | <u>  0</u>                                   | <u> </u>                                       | <u></u>      | 9  | <u> </u>                                      | <u> </u>                                     | <u> </u>                                       | М  | <u> </u>                                     |  | <u> </u>                                     |
| s-260          | <br>  H                                      | <br>  M                                       | <br>  M           | <br>   | <br>   | [<br>[                                       | <br>  M                                       |          |                       | M    |                | М                | <br>  M                                       | <br>  M                            | <br>  M      | M        | <br>  <u>0</u>                               | !<br>  | <br>         |  | <br>  | <br>   | <u> </u>                                       | <br>  M                                      | <br>  M                                      | <br>   | !<br><u> </u>                                |
| s-270          | <br>  M                                      | <br>  M                                       | <br>  M           | ]  |  |  | <br>  M                                       |          |                       | м    | <br>  A        | м                | <br>  M                                       | <br>  M                            | <br>  M      | <br>  M  | 0  |  | 1            | <br>  q                                      | <u> </u>                                      | 1  | 1  | <br>  M                                      | i<br>I m                                     | <br>   |  |
|                | l  | 1   | ĺ                 |  | 1  | <u> </u>                                     |   |          | ĺ                     |      |                |                  | İ   |                                    | 1            |          | 1  | Ī  | <u> </u>     | İ  | !   | İ  |  |  |  |  | !  |
| s-273          | <u>                                     </u> | <u>  M                                   </u> | <u>  м</u><br>    | <u> </u>   | <u>                                     </u>   | <u> </u><br>                                 | <u>  M                                   </u> |          | <u>_</u>              | M    | <u> </u>       | M                | <u>                                     </u>  | <u>  м_</u><br>                    | <u>  M</u>   | <u> </u> | <u>Q</u>                                     | l<br>  | <br>         | <u>                                     </u> | <br>  |  | <u>                                     </u>   | <u>  M</u><br>                               |  | <u>                                     </u> | <br>   |
| s-274          | <u>i m</u>                                   | <u>  M</u>                                    | M                 | <u>i                                     </u>    | <u> </u>                                       | <u> </u>                                     | M   |          | <del></del>           | M    | A              | М                | <u>                                     </u>  | <u> </u>                           | M            | M        | <u> </u>                                     |  | <u> </u>     | <u>i e</u>                                   | <u>                                      </u> | <del> </del>                                 | <u>                                     </u>   | <u>ј м</u>                                   | <u> </u>                                     | <u>                                     </u> | <u> </u>                                     |
| s-279          | M  | <br>  M                                       | M                 |  | !<br>  | <u> </u>                                     | <br>  M                                       | <br>     |                       | M    | A              | М                | <br>  M                                       | M_                                 | M            | <u> </u> | <u>                                     </u> | <u> </u>                                       | <u> </u>     | <u>                                     </u> | <u> </u>                                      | <u> </u>                                     | <u> </u>                                       | <u>  M</u>                                   | <u> </u> "                                   | <u>                                     </u> | <u> </u>                                     |
| s-280          |  | <br>  M                                       | <br>  M           |  | !  | !  | <br>  M                                       |          | - 1                   | M    | <br>  A        | М                | <br>  M                                       | <br>  M                            |              |          | <br>  Q                                      |  | 1            | <br>  Q                                      | <u> </u>                                      |  | 1  | <br>  M                                      | <u> </u>                                     | <br>  A                                      | 1  |

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

= dissolved oxygen

= total suspended solids

Phen = phenots

Pest = pesticides and PCBs

Flow = flow or stage meas.

TKN = total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics = chlorides

Cl = pH Trans = transparency

Alk = alkalinity

= total phosphorus TOC = total organic carbon

 $NH_3 NH_4 = ammonia$  $NO_2 NO_3 = nitrate-nitrite$ 

\$ed = sediment (routine) Sed Org = sediment organics

Metals = heavy metals

Fecal Coli = fecal coliform

Total Coli = total coliform

 $BOD_5 = 5$ -day biochemical

Sample Stations: Columbia

| Station<br>No. | <br> Теп<br>                                    | <br>  Qf<br> | DO | <br>  p#<br>   | <br> s         | alt  | Condt | '<br>:  ts:<br> | <br> | urb <br> <br> | Color | <br> Trans<br> | <br> Alkl<br>  | <br> Hard<br> | <br>  <sup>BOD</sup> 5<br> | <br>  N<br>  N | H <sub>3</sub>  <br>H <sub>4</sub> | NO<br>2<br>NO<br>3 | <br> TKN<br> <br> | <br>  TP<br>                                    | <br> TOC | <br>  cl<br>   | <br>  Phen<br> <br> | <br> Metals<br> <br> | <br> Pest<br> PCBs<br> | <br>  Other<br>  Org*<br> | <br>  Total<br>  Coli<br> | <br>  Fecal<br>  Coli | <br> Flow<br>    |          | <br>  Sed<br>  Org* |
|----------------|---|--------------|----|----------------|----------------|------|-------|-----------------|------|---------------|-------|----------------|----------------|---------------|----------------------------|----------------|------------------------------------|--------------------|-------------------|---|----------|----------------|---------------------|----------------------|------------------------|---------------------------|---------------------------|-----------------------|------------------|----------|---------------------|
| s-287          |   |              | М  | <br> <br>  M   | i<br>L         |      |       |                 | i    | M             |       | l<br>L         |                |               | <br>  M                    | <u> </u>       |                                    | М                  | <u> </u>          | <br>  <u>                                  </u> | 1        | 1              | <u> </u>            | .<br>                | <u> </u>               | !<br>!                    | <u> </u>                  | <br>  M               | <br><del> </del> | <u> </u> | <br>                |
| s-290          | <br><u>                                    </u> | <u> </u>     | M  | <br>  <u> </u> | <br>  <u> </u> | <br> |       | <br>            | <br> | <u>M</u>      |       | <br>           | <br>  <u>M</u> | <br> A_       | <br>  M                    | <u> </u>       | <u>м</u> .                         | М                  | <br>  M           | <br><u>                                    </u> | <br> -   | <u> </u>       | <u> </u>            | <br>  Q              | <br>                   | <br><u> </u>              | <u> </u>                  | 1<br><u>  M</u><br>   | <u> </u>         | 1 ^      | !<br>!<br>!         |
| S-294          | 1 1   | <br>         | M  | <br>           | <br>           | 1    |       | <br>  M         |      | M             |       | <br>           | ]<br>  M       | i<br>I A      | <br>  M                    | <br>           | M                                  | M                  | <br>  M           | <br>  <u> </u>                                  | <br>     | <br>  <u> </u> | !<br>               | <br>  0              | !<br>                  | !<br>                     | <u> </u>                  | M                     | <br>  M'         | <u> </u> | <u> </u>            |

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

= dissolved oxygen DO

TSS = total suspended solids

= phenols Phen

Pest = pesticides and PCBs

= flow or stage meas.

= total Kjeldhal nitrogen

Salt = salinity

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TOC = total organic carbon

 $NH_3 NH_4 = ammonia$  $NO_2 NO_3 = nitrate-nitrite$ 

Sed = sediment (routine)

Sed Org = sediment organics Metals = heavy metals

Fecal Coli = fecal coliform Total Coli = Total Coliform

 $BOD_5 = 5$ -day biochemical

Sample Stations: Florence

| Station<br>No. | <br> Temp      | <br>  DO<br> | <br>  pH<br>        | <br> Salt<br>  | <br> Condt<br> | <br>  TSS<br> | <br> Turb<br> | <br> Color<br> | <br> Trans<br> | <br> Alkl<br> | <br> Hard | BOD <sub>5</sub> | NH3<br>  NH4 | NO <sub>2</sub><br>  NO <sub>3</sub> | <br> TKN | TP  | l<br>I TOC    | <br>  cl<br> | <br>  Phen | <br> Metals<br> | <br> Pest<br> PCBs | <br>  Other<br>  Org* | <br>  Total<br>  Coli | <br>  Fecal<br>  Coli | Flow      | Sed  | <br>  Sed  <br>  Org* |
|----------------|----------------|--------------|---------------------|----------------|----------------|---------------|---------------|----------------|----------------|---------------|-----------|------------------|--------------|--------------------------------------|----------|-----|---------------|--------------|------------|-----------------|--------------------|-----------------------|-----------------------|-----------------------|-----------|------|-----------------------|
| MD-073         | <br> <br>  M   | <br>  M      | <br> <br>[ <u>M</u> | <br> <br>  M   | <br> <br>  M   | <br> <br>     | <br> <br>  M  | <br> <br>      | <br> <br>      | <br> <br>  M  |           | м                | <br>  M      | l<br>M                               | <br>  M  | M   | <br> <br>  Q_ | <br> <br>    | <br> <br>  | 0               | <br> <br>          | ]                     | <br> <br>             | <br>  M               | <br> <br> |      | <br>                  |
| MD-074         | <br>  M        | <br>  M      | <br>  M_            | <br>  M        | <br>  м_       | l<br>L        | <br>  M       | <br>           | <br>           | <br>          |           | М                | <br>         | <br>  M                              | <br>     | M   |               | <br>         | <br>       | [<br>]          | l<br>1             | 1<br>L                | l<br>ŧ                | <br>  M               | l         | <br> | <br>                  |
| MD-075         | <br>  M        | <br>  M      | <br> <br>  м        | <br> <br>  M   | <br>  M        | <br>          | <br>  M       | <br> <br>      |                | <br>  M       | <br>  A   | M                | l<br>I M     | l<br>I M                             | <br>  M  | M   | <br>  Q       | <br>  M      |            | <br>  Q         | l<br>i             | <br>                  | <br> <br>             | <br>  M               |           | <br> | <br>                  |
| MD-076N        | {<br>  M       | [<br>  M     | M                   | <br>  M        | 1              | <br> <br>     | [<br>  M      | <br> <br>      | 1              |               |           | м                | (<br>        | M                                    |          | М   | <br> <br>     | <br> <br>    | <br> <br>  | <br> <br>       | <u> </u>           | }<br>!                | ]<br>                 | M                     | j<br>     |      |                       |
| MD-077         | <br>  M        | j<br>  M .   | M                   | )<br>  M       | l<br>M         |               | <br>  H       | ]<br>          | ]<br>;         | <u>.</u>      | <br>  A   | м                | <br>  M      | M                                    | M        | M   | <br>  Q       |              |            | <br>  q         | <br> <br>          | 1                     | i<br>I                | l M                   | <br>      |      | 1                     |
| MD-080         | <br>  M        | <br>  M      | М                   | 1              | <br>  M        | <br>  M       | <br>  M_      | 1              | M              | M             | <br>  A   | м                | <br>  M      | i<br>M                               | M        | М   | <br>  M_      | <u>.</u>     |            | 0               | <br>  A            | <br>  A               | <br>                  | ļ<br>ļi               |           | l A  | l I                   |
| MD-085         | <br>  M        | <br>  M      | М                   | <br>  M        | [<br>] M       | <br>          | <br>  M       | <br> <br>      | <br>           | <br>          |           | м                | <br>         | l M                                  |          | M   | <br>          | <br>         | <br>       |                 | l<br>t             | [<br>                 | <br> <br>             | <br>  M               |           |      |                       |
| MD-087         | <br>  M        | <br>  M      | M                   | <br>  M        | <br>  M        | ]<br>         | <br>  M       | <br>           | <br>           |               |           | М                | !<br>!       | <br>  M                              |          | м   | <br> <br>     | <br>         | †<br>      | 1               | i<br>1             |                       | 1                     | <br>  M               |           |      | [                     |
| MD-088         | <br>  M_       | M            | M                   | l<br>M         | <br>  M        | <br>          | <br>  M       | l<br>1         | !<br>!         |               | <br>      | М                | <br>         | <br>  M_                             |          | M   | {<br>         | <br>         |            | <u> </u>        | !<br>L             | <br>                  | <u> </u>              | ]<br>  M              |           |      |                       |
| MD-089         | ј<br>  м       | <br>  M      | M                   | <br>  M        | <br>  M        | i<br>L        | <br>  M       | }<br>          | <br>           |               |           | М                | ]<br>        | M                                    | <br>     | м   | <br>          | <br> <br>    | <br>       | <br>            | <br>               | <u> </u>              | <br>                  | <br>  M               | [<br>[    |      | [<br>[                |
| MD-091         | <br>  M        | M            | <br>  M             | <br>  _ M      | <br>  M        | l<br>L        | M             | <br>           | <br>           | <br>          | <br>      | м                | <br>         | <br>  M                              |          | M   | <br>          | l<br>        | i<br>L     |                 | l<br>L             | l<br>L                | ]<br>[                | <br>  M_              | ]<br>]    |      | ·                     |
| MD-107         | <br>  <u>M</u> | <br>  M      | <u> </u>            | <br>  M        | <br>  _ M      | i<br>L        | <br>  M       | l<br>L         | l .  <br>L     | <br>          | <br>      | _ м              | i<br>1       | <br>  M_                             | <br>     | _ M | <br>          | <br>         | l<br>L     | <br>            | l<br>L             | l<br>L                | l<br>1                | <br>[ м               |           |      |                       |
| MD-110         | <br>  M        | <br>  M      | <u> </u>            | <br>  M        | <br>  <u> </u> | l<br>L        | <br>  M       | ļ<br>1         | <br>           |               |           | М                | <br>         | M                                    |          | м   | l<br>1        | <br>         | l<br>L     | <br> <br>       | <br>               | !<br>                 | [<br>[                | [<br>  M              | [<br>]    |      | l<br>L                |
| MD-111         | <br>  M        | M_           | М                   | <br>  <u> </u> | M              | 1             | <br>  M       |                |                |               | <br>      | М                | <br>         | <u> </u>                             |          | М   | <br>          | <br>         | )<br>      | !<br>L          | !<br>!             | <br>                  | <br>                  | )<br>  M              | ļ         |      | J<br>L                |
| MD-124_        | <br>  M_       | <br>  M      | <br>  <u>M</u>      | <br>  M        | <br>  <u> </u> | i<br>L        | <br>  M       |                | j<br>L         | M             | <br>  A   | М                | <br>  M_     | M                                    | <br>  M  | М   | <br>  Q       | <br>         | [<br>[     | <br>  Q         | l<br>L A           | <br>                  | <br>                  | <br>  M               | <br>  M   | . A  | <br>                  |

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Fecal Coli = fecal coliform

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 $BOD_5 = 5$ -day biochemical

| Station<br>No. | Temp  | DO                   | ,<br>  рн<br>   | Salt  | <br> Condt<br>  | TSS          | Turb       | <br> Cotor <br>    | Trans /    | Alkl | <br> Hard<br>      | BOD <sub>5</sub> | NH<br>  NH<br>  NH<br>                          | NO <sub>2</sub><br>NO <sub>3</sub> | TKN      | TP             | TOC            | cl<br> <br>                                  | Phen          | Metals<br> <br>  | Pest<br>PCBs | Other<br>Org* | Total<br>  Coli                               | Fecal<br>  Coli   | Flow     | Sed  | Sed<br>Org        |
|----------------|---|----------------------|-----------------|---|-----------------|--------------|------------|--------------------|------------|------|--------------------|------------------|---|------------------------------------|----------|----------------|----------------|--|---------------|------------------|--------------|---------------|---|-------------------|----------|--|-------------------|
| MD-125         | <br>  M   | M                    | l<br>L M        | l<br>l m                                      | ]<br>  M        | <br> -       | M          |                    | 1          |      | <br> <br>          | M                | )<br>   | <br>  M                            | <br>     | <br>  M        | <br> <br>      | <br> <br>                                    | <br> <br>     |                  | <br>         | <br>          | <br>  <u> </u>                                | <br>  M           |          |  | <br>              |
| MD-127         | Ī   | <br>  M_             | 1               | ]<br>  M                                      | i<br>M          | <br>         | l M        | <br>               | l<br>L     | М    | <br>  A            | м                | M   | <br>                               | <br>  M  | M              | <br>  0        | ]<br>  | }<br>L        | 0                | <br>         | <u> </u><br>  | <br>  <u> </u>                                | <u> м</u>         | <br>     | Α  | l<br>L            |
| MD-136         | <br>  M   | <br>  M              | ľ<br>  <u>M</u> | <br>  M                                       | <br>  <u>M</u>  | !<br>        | M          |                    | I          |      | <br>               | М                | <br>  | <br> M                             | <br>     | М              | <u> </u>       | 1<br>  | <br>          | 1                | !<br>        | <u> </u><br>  | <br>  | ]<br>  M          | <br>     | <u> </u>   | <br>              |
| MD-137         | [<br>  M  | <br>  M              | [<br>  <u> </u> | <br>  м                                       | [<br>  M        | l<br>1       | <br>  M    | <br>               | 1<br>      | <br> | <u> </u>           | M                | l<br>L  | <u> </u>                           |          | <u> </u>       | <br>           | <u> </u>                                     | ł<br>L        | <br>             | l<br>L       | !<br>         | !<br>L  | <br>  M           | l  <br>  |  | !<br><del> </del> |
| MD-138         | <br>  M   | <br>  M              | <br>  <u> </u>  | <br>  M                                       | <br>  м_        | <br> -       | <br>  M    | <br>               |            |      | <br>               | M                | <br>  | <br>  M_                           |          | <br>  <u> </u> | l<br>!         | <u> </u>                                     | !<br>         | <br>             | <u> </u>     | !<br>!        | !<br>!  | <br>  <u> </u>    |          |  | !<br><del> </del> |
| MD-146         | <br>  <u>                                  </u> | M                    | <br>  <u>M</u>  | <br>  <u>M</u>                                | і<br><u>  н</u> | 1<br>        | <br>  M    |                    |            | M    | <br>  <u> </u>     | М                | <br>  <u>M</u>                                  | <br>  <u> </u>                     | <br>  M  | <u> </u>       | <br>  0        | <br>  M                                      | !<br>         | <br>  <u> </u>   | !<br>!       | <br><u> </u>  | <br>  | <br>  <u>  M</u>  | <u> </u> | _ A  | <br>              |
| MD-149         | <br>  M   | <u> </u>             | <br>  <u> </u>  | <br>  M                                       | <br>  <u> </u>  | <u> </u>     | M          | <br>  <del> </del> | <u> </u>   | М    | _ A _              | М                | <br>  <u> </u>                                  | <br>  <u> </u>                     | <br>  M  | <u> </u>       | <br>  <u>0</u> | <br>   | !<br>!        | <br>  <u>  0</u> | !<br>!       | <u> </u><br>  | <u> </u>                                      | [<br><u>  M</u>   | [        |  | !<br>!            |
| MD-158         | <br>  M   | M                    | <u> </u>        | <br>  | <u> </u><br>  м | <br>         | M          | <br>               | <u> </u>   |      | <br>  <u> </u>     | М                | <br>  | <br><u> </u>                       | <u> </u> | <br>  <u>M</u> | <u> </u><br>   | !<br>  | !<br>         | <br>  A          | <u> </u>     | <u> </u>      | !<br>!  | <br>  M<br>       | <u> </u> | _ A  | <u> </u>          |
| MD-162         | <br>  M   | <br>  M              | <u> </u>        | !<br>! M                                      | I<br><u>I м</u> | !<br>!       | M          | <br><del>  </del>  | <u>·  </u> | М    | <br>  <u>  A  </u> | м                | <br>  <u>M</u>                                  | l<br><u>ј м</u>                    | <br>  M  | <u> </u>       | <br>  <u>0</u> | <u> </u><br>                                 | !<br>         | 0                | <u> </u>     | <u> </u><br>  | I<br><u>јм</u>                                | l<br><u>  M .</u> |          | <u> </u>   | <u> </u>          |
| PD-012         | <br>  M   | <br>  <del>   </del> | <br>  <u>M</u>  | <u> </u>                                      | <u> </u>        | !<br>!       | M          | <br>               |            | М    | <br>  A            | М                | <br><u>                                    </u> | <u> </u>                           | <br>  M  | <u>м</u>       | 1 0            | <u> </u>                                     | !<br>!        | -                | <br>  A      | <u> </u>      | <u> </u>                                      | <br>  M           | 1<br>  M | l<br><u>                                      </u> | <u> </u>          |
| PD-014         | ]<br>  M  | <u> </u>             | <br>  <u> </u>  | <u> </u>                                      | <u> </u>        | !<br>        | M          |                    |            |      | <br>               | М                | <u> </u>  | <br>  <u>M</u>                     | !<br>!   | <u> </u>       | <u> </u>       | <u> </u>                                     | !<br>]        | <u> </u>         |              | !<br>         | <u> </u>                                      | <br>  M           |          | <br>   | <u> </u>          |
| PD-015         | <br>  M<br>                                     | M                    | <u> </u>        | <u> </u>                                      | !<br><u>}</u>   | <u> </u><br> | M          | <br>               |            |      | A                  | м                | !<br>[<br>!                                     | <br>  M<br>                        | <br>     | <u> </u>       | !<br>!         | <u> </u>                                     | !<br><br>1    | A                | <u> </u>     | !<br>!        | <u> </u><br>                                  | !<br>! M          | <u> </u> | <br> <br>  | <u> </u>          |
| PD-016         | <u>M</u>  | M                    | м_              | <u> </u>                                      | <u> </u><br>    | <br>         | <u>  M</u> |                    |            |      | <br>  <br>         | М                | <br> <br>                                       | I<br><u>M</u>                      | <u></u>  | М              | <u> </u>       | <u>                                     </u> | <u> </u>      | <u> </u>         | <u> </u>     | <u> </u>      | <u> </u>                                      | <u>  M</u>        | <u>i</u> | L<br>!   | <u> </u>          |
| PD-017A        | <u>і</u> м<br>І                                 | M                    | <u> </u>        | <u>i                                     </u> | <u> </u><br>    | <u></u>      | M          |                    |            |      | <br>  <br>         | М                | <br>  | <u> </u>                           | <u> </u> | M              | <u> </u>       | <u> </u>                                     | <u>i</u><br>1 | <u> </u>         | <u> </u>     | <u> </u><br>  | <u>.</u><br>                                  | <u>і м</u><br>І   | <u> </u> |  | <u>i</u>          |
| PD-021         | <u>i m</u>                                      | M                    | M               | <u>i                                     </u> | <u>i</u>        | <u> </u>     | i m        | <u>i</u>           | i          | М    | A                  | М                | <u> </u>  | М                                  | M        | М              | <u>i a</u>     | <u>i</u>                                     | <u>.</u>      | <u>i a</u>       | <u>.</u>     | <u> </u>      | <u>i                                     </u> | M                 | M        | i  | <u>i_</u>         |

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 $NH_3 NH_4 = ammonia$  $NO_2 NO_3 = nitrate-nitrite$ 

Sed = sediment (routine) Sed Org = sediment organics Metals = heavy metals

Fecal Coli = fecal coliform Total Coli = total coliform

BOD<sub>5</sub> = 5-day biochemical oxygen demand

Sample Stations: Florence

| Station<br>No. | <br> Temp<br> | <br>  DO<br>                                    | <br>  pH<br>   | <br> Salt<br> | <br> Condt<br> | <br>  TSS<br> <br> | <br> Turb<br> <br> | <br> Color<br> <br> | <br> Trans <br> <br> | <br> Alkl<br> | <br> Hard <br> <br> | BOD <sub>5</sub> | <br>  NH <sub>3</sub><br>  NH <sub>4</sub> | <br>  NO <sub>2</sub><br>  NO <sub>3</sub> | <br> TKN<br> | <br>  TP<br>   | <br> TOC<br> | <br>  cl<br> | <br>  Phen<br> <br> | <br> Metals<br> <br> | <br> Pest<br> PCBs<br> | <br>  Other<br>  Org*<br> | <br>  Total<br>  Coli<br> | <br>  Fecal<br>  Coli<br> | <br> Flow<br> <br> | <br>  Sed<br> | <br>  Sed<br>  Org*<br> |
|----------------|---------------|---|----------------|---------------|----------------|--------------------|--------------------|---------------------|----------------------|---------------|---------------------|------------------|--|--|--------------|----------------|--------------|--------------|---------------------|----------------------|------------------------|---------------------------|---------------------------|---------------------------|--------------------|---------------|-------------------------|
| PD-023         | <br>  M       | <br>  M   | <br>  #        |               |                | <br> <br>          | M                  | <br>                |                      | М             | <br>  A             | М                | M  | <br>  M                                    | <br>  M      | М              | <br>  0      | <br>         | [<br> <br>          | <br>  Q              |                        |                           |                           | !<br>! M                  | l<br>M             |               |                         |
| PD-025         | <br>  M       | <br>  M   | <u> </u>       | 1             | l<br>L         | l<br>              | <br>  M            | l<br>               | <br>                 | М             | <br>  A             | M_               | <br>  M                                    | M  | <br>  M      | <br>  <u>M</u> | <br>  Q      | <br>         | l<br>1              | <br>  Q              | ł<br>1                 | <u> </u>                  | !<br>1                    | ј<br><u>  м</u>           | <br>  M            | L             | ]<br>1                  |
| PD-027         | <br>  M       | <br>  M   | <br>  <u>м</u> |               | M              | <br>  M            | <br>  M            | <br>                |                      | М             | <br>  A             | М                | <br>  M                                    | M  | <br>  M      | M              | <br>  M      | <br>         | ]<br>[              | <br>  a              | l<br>l A               | <br>  A                   | l<br>!                    | <br>  M                   | <br>  м_           | <br>  A       | l<br>l A                |
| PD-028         | <br>  M       | <br>  <u>  M</u>                                | <br>  м        |               | <u>М</u>       | <br>  M            | <br>  m ′          | <br>                | <br>                 | М             | <br>  A             | М                | <br>  M                                    | <br>  M                                    | <br>  M      | M              | <br>  M      | <br>         | l<br>I              | <br>  0              | <br>  A                | <br>  A                   | <u> </u>                  | <br>  M_                  |                    | <br> A        | l<br>I A                |
| PD-029E        | <br>  M       | <br>  M   | М              |               | <br>           | i<br>L             | <br>  M            | l<br>L              |                      |               |                     | М                | l .<br>L                                   | M  | <br>         | <br> M_        | 1<br>1       | <br>         | <br>                | <br>                 | [                      | [<br>                     | <u> </u>                  | [<br><u>M</u> _           | [<br>              | [<br>         | 1                       |
| PD-030         | ]<br>  M      | ]<br><u>  M</u>                                 | <br>  м        | ]<br>         |                | ]<br>I             | <br>  M            | [<br>               |                      |               | <br>                | м                | <br>                                       | <br>  M                                    | <br>         | М              | <br>         | <br> <br>    | <br>                | <br>                 | i<br>L                 | [<br>                     | <br>                      | <br>  M                   |                    | l<br>L        | l<br>L                  |
| PD-030A        | <br>  M       | <br>  M   | M              |               | <br>           |                    | <br>  M            | <u> </u>            | <br> 1               |               | <br>  A             | М.               | i<br>L                                     | <br> M                                     | <br>         | М              | l<br>L       | !<br>        | l<br>L              | <br>  A              | <br>                   | <br>                      | !<br>                     | <br>  M_                  | <br>               | <br> A        | !<br>                   |
| PD-031         | [<br>         | <br>  M   | <u>м</u>       |               | <u> </u>       | L                  | <br>  M            | <br>                | <br>                 |               | <br> 1              | м_               | <br>                                       | M  | <br>         | М              |              | [<br>L       | <br>                | l<br>L               | <br>                   | ]<br>                     | <u> </u><br>              | <br>  M                   | <br>               | )<br>         | 1                       |
| PD-035         | <br>  M       | <br>  <u>M</u>                                  | <br>  <u>M</u> |               | <br>           |                    | <br>  M            | l<br>               | <br>                 |               | <br> 1              | <u>M</u>         | }<br>!                                     | <u> </u>                                   | <br>         | <br>  <u> </u> | ]<br>        | <u> </u>     | ]<br>               | <br>                 | <br>                   | <br>                      | !<br>!                    | <br>  <u>M</u>            | ]<br>              | J<br>L        | <br>                    |
| PD-036         | <br>  M       | <br>  M   | M              |               | <br>           |                    | <br>  M            | <u> </u>            | <br> 1               |               | <br>                | м                | <br>                                       | M  | <br>         | М              | <br>         | <br>         | <br>                | <br>                 | <br>                   | <br>                      | <br>                      | <br>  M                   | l<br>!             | <br>          | 1                       |
| PD-037         | <br>  M       | <br><u>                                    </u> | <br>  <u>M</u> | <br>          | <br>           | <br>               | <br>  M            | <br>                | <b> </b>             |               |                     | M                | <br>                                       | <br>  M                                    | <br>         | <br>  <u>M</u> | <br>         | <br>         | <br>                | <br>                 | <br>                   | <br>                      | l<br>L                    | <br>  M                   | <br>               | ]<br>         | <br>                    |
| PD-038         | <br>  M_      | <br>  M   | M              | <br>          | M              | M                  | [<br>_ м           | [<br>               | <b> </b>             | М             | <br>  A             | М                | [<br>  _ M                                 | <br>  M                                    | [<br>  M     | M              | <br>  M      | [<br>        | [<br>[              | <br>  Q              | l<br>L A               | <br> A                    | <br>                      | <br>  M_                  | <br>  M_           | <b>A</b>      | <br>  A_                |
| PD-039         | <br>  M       | M   | <u> </u>       |               | ]<br>          |                    | M                  | <br>                |                      |               |                     | М                | i<br>L                                     | M  | <br>         | M              | <br>         | <br> <br>    | <br> <br>           | <br> <br>            | <br>                   | <br>                      | l<br>[                    | <br>  M                   | <br>               | <br>          | 1                       |
| PD-041         | <br>  M       | <br>  M   | <u> </u>       | <br>          |                | ] .<br>[           | M                  | <br>                |                      | М             | <br>  A             | М                | <br>  M                                    | <br>  M                                    | <br>  M      | М              | <br>  0      | <br> <br>    | <br> <br>           | <br>  Q              | <br>                   | <br>                      | <u> </u>                  | <br>  M                   | <br>  M_           | <br>          | <br> <br>               |
| PD-042         | <br>  M       | M   | M_             |               | <br>           | <br>               | M                  | <br>  M             |                      | M             | <br>                | м                | <br>                                       | M.   |              | <br> M         | <br> <br>    | <br> <br>    | l<br>l              | <br>  A              | <br> <br>              | <br> <br>                 | <br> <br>                 | <br>  M                   | <br> <br>          | <br> <br>     | <br>[                   |

\*Base-Neutral and Acid Extractable, and **Volatile Organics** 

Temp = temperature

= dissolved oxygen DO

TSS = total suspended solids

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

= total Kjeldhal nitrogen

Salt = salinity

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= total phosphorus

TOC = total organic carbon

Sed = sediment (routine)

Sed Org = sediment organics

Metals = heavy metals

Fecal Coli = fecal coliform Total Coli = total coliform

 $BOD_5 = 5$ -day biochemical

| Station<br>No. | <br> Temp<br> <br>     | <br>  DO<br>     | <br>  pH<br> <br> | <br> Salt<br>                                | <br> Condt<br> <br> | <br>  TSS<br> | <br> Turb<br> <br>                                | <br> Color<br> | <br> Trans <br> | Alki      | <br> Hard <br> | BOD<br>5 | <br>  NH <sub>3</sub><br>  NH <sub>4</sub><br> | NO <sub>2</sub> | <br> TKN<br> <br> | TP | !<br>  тос<br> <br> | Cl       | <br>  Phen    | <br> Metals<br> | <br> Pest<br> PCBs | <br>  Other<br>  Org* | <br>  Total<br>  Coli<br> | <br>  Fecal<br>  Coli | <br> Flow<br> <br> | Sed               | <br>  Sed<br>  Org* |
|----------------|------------------------|------------------|-------------------|--|---------------------|---------------|---|----------------|-----------------|-----------|----------------|----------|--|-----------------|-------------------|----|---------------------|----------|---------------|-----------------|--------------------|-----------------------|---------------------------|-----------------------|--------------------|-------------------|---------------------|
| PD-043         | <br>  M_               | l M              | <br>  <u>M</u>    | 1<br>L                                       | <br>                | <br>          | <br>  M   | <br>           | <br>            | <u>M_</u> | A              | М        | <br>  <u>M</u>                                 | M_              | <br>  M           | М  | <br>  <u>a</u>      | <br>L    | l<br>!        | <br>  Q         | <br>               | !<br>                 | l<br>L                    | <br>  M               | I м .              | <br> A            | <br>                |
| PD-044         | [<br>  M               | <br>  M          | <br>  <u>M</u>    |  | !<br>               | !<br>!        | l M   | <u> </u>       | <br>            |           | <br>           | М        |  | M               | <br>              | M  | !<br>!              | <br>     | <br>          | !<br>1          | !<br>L             | <u> </u><br>          | !<br>                     | <br>  <u> </u>        | <br>               | j<br>L            | <u> </u>            |
| PD-045         | М                      | <br>  M          | <br>  <u> </u>    | <u> </u>                                     | <br>                | l<br>I        | <br>  <u>M</u>                                    | [<br>          | <br>            |           | <br>           | М        | l<br>l   | <u> </u>        | <u> </u>          | М  | <br>                | <br>     | l<br>L        | !<br>!          | l<br>L             | <br>                  | <u> </u>                  | <br>  M               | l<br>              | <br>              | ļ<br>               |
| PD-052         | <br>  M                | <br>  <u>  M</u> | <br>  <u>M</u>    |  | <u> </u>            | [<br>         | [<br><u>                                     </u> | [<br>          | <br>            | М         | A              | М        | [<br>  M                                       | M               | <br>  M           | M  | <br>  0             | <br>     | [<br>         | 0               | l<br>              | <u> </u>              | <u> </u>                  | <u>М</u>              | /<br>1 M           | ί<br><u>Ι_Λ</u> _ | <br>                |
| PD-055         | <br>  <u>M</u>         | <br>  <u>M</u>   | <br>  <u> </u>    | !<br>!                                       | <u> </u>            | <br>          | <br>  <u>  M</u>                                  | !<br>!         | <br>            |           |                | М        | <u> </u>                                       | M               | <br>              | М  | !<br>!              | <br>     | <br><u> </u>  | !<br>!          | <br>               | !<br>!                | <u> </u><br>              | <br>  <u> </u>        | <br>               | <br><u> </u>      | <u> </u>            |
| PD-061         | <br>  M_               | <br><u>  M</u>   | <br>  <u> </u>    | !<br>!!                                      | <u> </u>            | <br>  M       | <br><u>  M</u>                                    | <u> </u>       | <br>            | M         | A              | М        | <br>  <u> </u>                                 | <u> </u>        | [<br>  M          | М  | <br>  M             | <u> </u> | <br>          | <br>  <u> </u>  | <br> A             | <br>  A               | !<br><del>!</del>         | <br>  <u> </u>        | <br>  <u>  M</u>   | <br>              | <br>                |
| PD-069         | <br>  M                | <br>  M          | <br>  <u>M</u>    | <u> </u>                                     |                     | !<br>!        | <br><u>  M</u>                                    | <br>           |                 | М         | M              | М        | <br>  <u> </u>                                 | М               | l<br>I M          | M  | <br>  <u>0</u>      |          | <u> </u>      | <br>  0         | <br>               | i<br><u>L</u>         | <u> </u><br>              | <br>  M               | <br>  M            | <br> ^            | <u> </u>            |
| PD-072         | <br>  M                | ]<br>  M         | М                 | <u> </u>                                     |                     | <br>          | <br>  M   |                | <br>            |           | <u> </u>       | М        | <u></u>  | M               | <u> </u>          | М  | !<br>!              | <br>     |               | <u> </u>        | [<br>              | <u> </u><br>          | <u> </u>                  | <br>  <u>  M</u>      | !<br>              | <br>              | <u> </u><br>        |
| PD-076         | <br>  M                | <br>  M          | <u> </u>          | <u>                                     </u> |                     | <br>          | <br><u>  M</u>                                    | 1              | <br>            | М         | A              | М        | <br>  <u> </u>                                 | М               | M                 | М  | <br>  <u>a</u>      |          | !<br>[        | <u> </u>        | [<br>              | <u> </u><br>          | !<br><del> </del>         | !<br><u>  M</u>       | <br>  M            | !<br><u> </u>     | <u> </u>            |
| PD-081         | M                      | !<br><u>  M</u>  | <br>  <u> </u>    | <u>                                     </u> |                     | <br>          | <br>  <u>M</u>                                    | [              | 1<br>           |           | <br>           | M        | <br>   | М               |                   | М  | <u> </u>            |          | <br>          | <u> </u>        | <br>               | !<br>!                | <u> </u><br>              | l<br><u>  M</u>       | !<br>!             | <u> </u>          | <u> </u>            |
| PD-085         | <u> </u>               | <br>  M<br>      | <br>  <u> </u>    |  | <br>                | <br>          | M   | <u> </u>       | <br> 1          |           |                | M        | <u> </u>                                       | М               |                   | М  | !<br>               |          | <br>          | !<br><u> </u>   | <br>               | !<br>!                | <br>                      | l<br><u>M</u>         | !<br>              | <u> </u>          | <u> </u>            |
| PD-086A        | <u> </u><br><u>  м</u> | <br>  M          | <u> </u>          |  | <br>                | <br>          | <br>  <u> </u>                                    | !<br>!         | <br>            |           |                | M        |  | M               | <br>              | М  | <u> </u><br>        |          | l<br><u> </u> | <br>            | <u> </u><br>       | !<br>                 | <u> </u>                  | <br>  <u>M</u>        | !<br>!             | <br>              | <u> </u>            |
| PD-087         | <br>  M                | M                | M                 |  |                     |               | [<br><u>M</u>                                     | <br>  <br>     |                 |           |                | М        | <u> </u>                                       | M               | <br>              | M  | !<br>               |          | !<br>         |                 | <br>               | !<br>!                | <u> </u>                  | !<br> M               | <u> </u>           | !<br>!<br>!       | <u> </u>            |
| PD-091         | <u>і</u><br><u>ім</u>  | i<br>  M<br>     | М                 | !  <br>                                      | <br>                |               | <u> </u>  |                | <br>  <br>  ''  | M         | A              | м        | М  | М               | <u> </u>          | M  | <br>  <u>Q</u>      |          | <u> </u>      | 1<br>  0        | <br>               | !<br>                 | <br>  .                   | !<br>  <u>M</u>       | <br>  M            | .<br> A           | <u> </u><br>        |
| PD-097         | <u> </u>               | <br>  M          | M                 |  |                     |               | M.  |                |                 |           | A              | М        | <u> </u>                                       | М               |                   | М  | !<br>L              |          |               | <br>  A         | l<br>              | !<br>!                | !<br>!                    | <br>  M               | I<br>              | <br>              | <u></u>             |

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Alk = alkalinity

= total phosphorus TOC = total organic carbon

 $\begin{array}{ll} \text{NH}_3 & \text{NH}_4 & = \text{ ammonia} \\ \text{NO}_2 & \text{NO}_3 & = \text{ nitrate-nitrite} \\ \end{array}$ 

Sed = sediment (routine)

Sed Org = sediment organics

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Fecal Coli = fecal coliform

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 $BOD_5 = 5$ -day biochemical

| Station<br>No. | <br> Temp<br>                                   | <br>  DO<br> <br>                                | <br>  pH<br>    | <br> Salt<br> <br> | <br> Condt<br> | <br>  TSS<br> <br> | <br> Turb<br> <br>                               | <br> Color<br> | <br> Trans<br> | <br> Alkl<br> | <br> Hard <br> | BOD <sub>5</sub> | <br>  NH <sub>3</sub><br>  NH <sub>4</sub><br> | NO <sub>2</sub><br>  NO <sub>3</sub> | <br> TKN  <br> | TP       | <br>  TOC<br> | <br>  cl<br> <br>  | <br>  Phen<br>  | <br> Metals<br> <br> | <br> Pest<br> PCBs<br> | <br>  Other<br>  Org*<br> | <br>  Total<br>  Coli<br> | <br>  Fecal<br>  Coli  | <br> Flow<br> <br> | Sed      | <br>  Sed<br>  Org* |
|----------------|---|--|-----------------|--------------------|----------------|--------------------|--|----------------|----------------|---------------|----------------|------------------|--|--------------------------------------|----------------|----------|---------------|--------------------|---|----------------------|------------------------|---------------------------|---------------------------|------------------------|--------------------|----------|---------------------|
| PD-098         | <br>  M   | <br>1 м  | <br>  <u>M</u>  |                    | ]<br>[         | <br>               | <br>  M  | <br>           | [<br>          | [<br>L        |                | М                | {<br>  | [<br><u>  м</u>                      |                | M        | <br>          | <br>               | l<br>L  | <u> </u>             | i<br>                  | l<br>1                    | <u> </u>                  | ј<br>  м               | <u> </u>           |          | <br>                |
| PD-103         | <br>  M   | і<br><u>Ім</u>                                   | <br>  <u>M</u>  | <u> </u>           |                | <u> </u>           | <br>  M  | <b> </b><br>   | l<br>L         |               |                | М                | !<br>1   | <br>  M                              | <br>           | M_       | <u> </u>      | <u> </u><br>       | <br>  |                      | <br>                   | <u> </u><br>              | ]<br>[                    | ]<br>  M               | !<br>              | <u> </u> | <br><b> </b>        |
| PD-106         | <br>  M   | <br>  M  | <br>  M         | <br>               | ]<br>          | ]<br>L             | }<br>L M   | ]<br>L         | )<br>L         | <br>          | ]<br>          | М                | <br>   | <br>  M                              | <br> -         | <u> </u> | <br>          | <br>               | <br>  | <u> </u>             | <u> </u>               | <br>                      | <u> </u>                  | <br>  <u>M</u>         | l<br>1             | <br>     | <br>                |
| PD-107         | <br>  M   | <br>  <u>                                  </u>  | <br>  <u>M</u>  | <br>               | <b>i</b>       | l<br>L             | <br>  <u>                                  </u>  | l<br>L         | <br>           | <br>          | <br>           | м                | <br>   | M_                                   |                | M_       | <br>          | <br>               | l<br>L  | <br>                 | 1                      | <br>                      | <u> </u>                  | <br><u>  M</u>         | l<br>              | <u> </u> | <br>                |
| PD-112         | <br>  M   | <br>  M  | <br><u>М</u>    | <br>               | <u> </u>       | l<br>{             | <br>  M  | <b> </b>       | l<br>t         | l<br>L        |                | м                | <br>   | <br>  M                              |                | M        | <br>          | <u> </u>           | l<br>L  | <br>                 | <br>                   | l<br>L                    | <u> </u>                  | <u> </u><br> м         | <br>               | l<br>L   | <u> </u><br>        |
| PD-115         | <br>  M   | <br>  <u>M</u>                                   | <br>  м         | <br>               | l<br>L         | l<br>L             | ]<br><u> </u> м                                  | <u> </u>       | l<br>L         |               |                | М                | l<br>L   | <br>  M                              | <br>           | M        | <br>          | !<br>!             | l<br>I  | <u> </u>             | <u> </u><br>           | <br>                      | <u> </u>                  | <br>  <u>M</u>         | <u> </u>           | <br>     | <br>                |
| PD-116         | <br><u>                                    </u> | <br>  <u>M</u>                                   | <br>  <u>M</u>  | <br><u> </u>       | <u> </u>       | <br>               | <br>  M  |                | l<br>L         | <br>          |                | м                | <br>   | <br>  M_                             | <u> </u>       | M        | <br>          | <br>               | !<br>!  | <u> </u>             | !<br><del>!</del>      | <br>                      | !<br>!                    | <br>  <u>M</u>         | <u> </u>           | .<br>    | <u> </u>            |
| PD-137         | <br><u>                                    </u> | <br>  <u>                                   </u> | <br>  <u> </u>  | <br>               | ļ<br>Ļ         | l<br><u>L</u>      | <br>  <u>                                   </u> | <u> </u>       | <u> </u>       | <br>          | <br>           | М                | !<br><del> </del>                              | <br>  M_                             |                | M        | <br>          | <br><del> </del> - | !<br>!  | <u> </u>             | <u> </u><br>           | !<br>!                    | <u> </u><br>              | <u> </u><br><u>  м</u> | <u> </u>           | <u> </u> | <u> </u><br>        |
| PD-141         | !<br><u>  м</u>                                 | !<br><u>  M</u>                                  | <u> </u>        | <u> </u>           | <u> </u>       | l<br>L             | <u>  M</u>                                       | <u> </u>       | <br>           | l<br>L        |                | м                | !<br>!   | <u> </u><br>  м                      | [<br>          | _ м      | \<br>         | !<br><del> </del>  | !<br>!  | <u> </u>             | <u> </u>               | <u> </u>                  | <u> </u>                  | I<br>I <u>м</u>        | <u> </u>           | !<br>!   | <u> </u><br>        |
| PD-143         | !<br>! M  | [<br>  M   | [<br>  <u> </u> | <u> </u>           | <u> </u>       | !<br>              | <br>  M  | l<br>          | !<br>!         | !<br>         | ! !<br>!!      | M                | !<br>!   | <br>  M_                             |                | М        | !<br>         | !<br>              | !<br><u> </u> -                                       | <u> </u>             | !<br><del> </del>      | !<br><del> </del>         |                           | ]<br>  M<br>           | <u> </u><br>       | 1        |                     |
| PD-159         | <br>  M_  | M  | <u>М</u>        | <u> </u>           |                | !<br>!             | ]<br>  M   | ]<br>[         |                | <u> </u>      | <br>           | М                | !<br>!   | <br>  M                              |                | <u> </u> | <u> </u>      | <u> </u>           | !<br><u> </u>   |                      | <u> </u><br>           | <u> </u>                  | <br>                      | !<br>  <u>M</u>        | <u> </u>           | 1<br>    | <u> </u>            |
| PD-168         | !<br><u>  M</u><br>                             | I.<br><u>  M</u>                                 | <br>  <u> </u>  | <u> </u><br>       | !<br>          | !<br>[             | <br>  <u>                                   </u> |                | <br>           | <br>          | <br>  <br>     | М                | !<br>[   | <br>  <u>M</u><br>                   | <br>           | M        | <u> </u><br>  | <u> </u>           | !<br>[  | <u> </u>             |                        | !<br>!                    | <u> </u>                  | <br>  M                | <u> </u>           | )<br>    | <u> </u>            |
| PD-169         | I M   | M  | M               | !<br>              |                | !<br><u> </u>      | <br><u>  M</u><br>                               |                |                | <br>          |                | М                | <u> </u><br>                                   | <br>  M                              | !<br>!         | M        | !<br>         | !<br>              | !<br><u>}</u>   | !<br><u>!</u>        | <u> </u><br>           | !<br><u> </u>             | 1                         | !<br>}_M               | <u> </u>           |          | <u> -</u>           |
| PD-170         | <u>                                     </u>    | <u>М</u>   | M               | <u> </u><br>       | !<br>!!        | <br>               | <u>М</u>   | <br>           |                | <br>  M<br>   |                | М                | !<br>  M<br>                                   | <br><u>  M</u><br>                   | <br>  M        | M        | <br>  0<br>   | <br>  <u>M</u><br> | , .<br><u>                                       </u> | <br>  <u>0</u><br>   | !<br>                  | <br>                      | <br>                      | <br>  M<br>            | <br>  M<br>        |          | <u> </u>            |
| PD-172         | <u>i</u> m                                      | M  | М_              | <u> </u>           |                | <u> </u>           | М  | iemo :         |                |               |                | М                | <u> </u>                                       | M<br>Salt                            |                | M'       |               | 1                  | <u>.                                    </u>          | <u> </u>             |                        | <u> </u>                  | <u> </u>                  | M = sedi               | <u></u>            | <u> </u> | <u></u>             |

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

= dissolved oxygen

TSS = total suspended solids

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

= total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics Cl = chlorides

рΗ ≃ pH Trans = transparency

= alkalinity = total phosphorus

TOC = total organic carbon

 $\frac{NH_3}{NO_2} \frac{NH_4}{NO_3} = \frac{NH_4}{NO_3} = \frac{NH_4}{NH_3}$ 

Sed = sediment (routine) Sed Org = sediment organics Metals = heavy metals

Fecal Coli = fecal coliform

Total Coli = total coliform  $B00_5 = 5$ -day biochemical

| Station<br>No. | <br> Temp<br> | DO<br>     | <br>  p#<br> <br>                                | <br> Salt<br> <br> | <br> Condt<br> | TSS  | <br> Turb<br> <br> | <br> Color<br> <br> | <br> Trans <br> | Alkl | Hard    | BOD <sub>5</sub> | NH <sub>3</sub><br>NH <sub>4</sub> | NO <sub>2</sub> | <br> TKN<br> <br>                               | <br>  TP<br> <br> | <br>  TOC<br> <br> | Cl        | <br>  Phen<br> <br> | <br> Metals<br> <br> | <br> Pest<br> PCBs | <br>  Other<br>  Org*<br> | <br>  Total<br>  Coli | <br>  Fecal<br>  Coli |              | Sed          | Sed<br>Org*  |
|----------------|---------------|------------|--|--------------------|----------------|--|--------------------|---------------------|-----------------|------|---------|------------------|------------------------------------|-----------------|---|-------------------|--------------------|-----------|---------------------|----------------------|--------------------|---------------------------|-----------------------|-----------------------|--------------|--------------|--------------|
| _PD-176        | <br>  M_      | l<br>l M   | <br>  <u>M</u>                                   | l<br>1             | <br>           |  | <br> <br>  M_      | l<br>L              | <br>            |      |         | М                | <br>                               | М               | -<br>   | <br>  <u> </u>    | <u> </u>           | l<br>     | !<br>!              | <u> </u>             | <br>               | <br>                      | <br>                  | <br>  <u>M</u>        | <br>         |              |              |
| PD-177         | <br>  M       | -<br>  M _ | <br>  M  | <br>               | l<br>!         | <br>   | <br>  M_           |                     |                 |      | <br>    | М                | l<br>L                             | <br>  <u> </u>  | <br>  | <br>  <u> </u>    | <br>               | <br>      | l<br>               | <br>                 | l<br>!             | <br>                      | <br>                  | <br>  M               | [<br>        | l<br>L       | <br>         |
| PD-186         | <br>  M_      | <br>  M _  | M  | l<br>L             |                |  | <br> <br>  M       | <br>                |                 |      |         | М                | <br>                               | M_              | <br>  | _ M               | <br> <br>          | !<br>!    | <br>                | <br>                 | l<br>L             | <br>                      | 1<br>L                | .<br>  <u>M</u>       | <br>         | <u> </u>     | .<br>        |
| _PD-187        | [<br>  M      | <br>  M    | <br>  M  | [<br>              |                | L  | <br>  M            | l<br>1              |                 |      |         | _ M              | }<br>!                             | M               |   | <br>  M           | <br>               | <br> <br> | {<br>               | <br>                 | <i>!</i><br>!      | ł<br>L                    | l<br>                 | <br>  <u> </u>        | }<br>        | <br>         | !<br>!       |
| PD-189         | [<br>[ M      | <br>  M    | <br>   | <br>               | [<br>[         |  | <br>  M_           |                     | <br>            | м    | A       | М                | <br>  M                            | M               | <br>  <u>M</u>                                  | <br>  M           | <br>  0            | <br>  M   | <br>  <u> </u>      | <br>  0              | l<br>L             | l<br>L                    | <u> </u><br>          | <br>  M               | <br>  M      | l A          | l<br>L       |
| PD-190         | <br>  M       | <br>  M _  | <br>  M  | <br>               | <br>           |  | <br>  M_           | <br>                | ]  <br>         |      | <br>    | М                | <br>                               | M               | <br>  | <br>  м           | <br>               | <br>      | l<br>i              | <br>                 | <br>               | <br>                      | <u> </u>              | <br>  <u>M</u>        | <br>         | <u> </u>     | <br>         |
| PD-201         | <br>  M       | <br>  M_   | <br>  M  | <br>               | i<br>I         | i<br>I   | і<br><u>Ім</u>     | i<br>1              |                 |      | <br>    | М                | }<br>L                             | <br>  <u> </u>  | <u> </u><br>                                    | <br>  <u>M</u>    | <u> </u><br>       | <u> </u>  | <u> </u><br>        | <u> </u>             | }<br>L             | }<br>L                    | }<br>                 | ]<br>  <u>M</u>       | l<br>L       | <br>         | }<br>!       |
| PD-202         | <br>  M       | <br>[ M _  | <br><u>                                     </u> | <br>               | [ M            | <br><u>                                     </u> | <br>  <u>M</u>     | l                   |                 | М    | <br>  A | М                | M                                  | <u> </u>        | <br>  <u>                                  </u> | <br>  <u> </u>    | <br>  M            | !<br>     | l<br>!              |                      | <br>               | <br>  _ A                 | !<br>!                | <br>  <u>  M</u>      | <br>  M      | <br>         | <br> A       |
| PD-203         | <br>  M       | <br> - M   | <br>  M  | <br>               | <br>           | l<br>L   | <br>  M            | <br>                | <br>            | -    |         | М                | l<br>L                             | <br>  M         | <br>  | <br>  <u> </u>    | <br><u> </u>       | l<br>1    | l<br>L              | l<br>1               | l<br>1             | l<br>L                    | <br>                  | !<br><u>М</u>         | <br><u> </u> | <br>         | <br>         |
| PD-227         | [<br>  M      | <br>  M    | і<br>І <u>н</u>                                  | <u> </u>           | [<br>          | f<br>L   | <br>  <u>M</u>     | l<br>               | <br>            | М    | <br>  A | <u> </u>         | <br>  <u> </u>                     | <u> </u>        | <br>  M_  | <br>  <u> </u>    | <br>  0            | !<br>L    | l<br>               | <br>  <u> </u>       | <br>               | !<br>                     | !<br>                 | <br>  <u>M</u>        | <br>  M      | <br>         | <br>         |
| PD-229         | <br>  M       | <br>  M    | <br><u>  M</u>                                   | <br>               | l<br>[         | <br>[  | <br><u>  M</u>     | <br>                | <br>            |      |         | М                | l<br>L                             | M               | <br>  | <br>  M           | l<br>L             | <br>      | l<br><u> </u>       | -<br>                | l<br>L             | <br>                      | l<br>L                | <br>  M               | <br>         | <br>         | <u> </u><br> |
| PD-230         | <br>  M_      | <br>  M    | <br><u>                                     </u> | <u> </u>           | l<br>          | L  | (<br><u>  M</u>    | <br>                | <br>            |      | <br>    | М                | <br>                               | <br>  <u> </u>  | \<br>L_   | <br>  <u> </u>    | l<br>1             | l<br>L    | !<br>!              | <u> </u>             | !<br>1             | l<br>1                    | <u> </u>              | <br>  M               | l<br>        | <br>         | !<br>!       |
| PD-231         | [<br>  M      | <br>  M    | <br>  <u> </u>                                   | <br>               | [<br>          | <br>   | <br>  <u>M</u>     | [<br>               | <br>            |      | <br>    | М                | [<br>                              | <u> </u>        | l<br>   | <u> </u>          | !<br>              | !<br>     | !<br>               | <u> </u>             | <u> </u><br>       | !<br>L                    | l<br>1                | <br>  <u>M</u>        | <u> </u>     | {<br>        | <u> </u>     |
| PD-236         | <br>  M_      | <br>  M    | <br>[ <u>M</u>                                   | <br>               | [<br>[         | <br>   | <br>  <u>M</u>     |                     | <br> 1          |      |         | М                | l<br>L                             | <br>  <u>M</u>  | <br>  | <br><u>  м</u>    | l<br>L             | <br>      | 1<br><u>L</u>       | l<br>L               | l<br>              | <br>                      | <u> </u>              | <br>  <u>M</u>        | l<br>L       | <u> </u><br> | <u> </u>     |
| PD-239         | ј<br>  м      | <br>  M    | <br>  M  | <br>               | <br>           | l ·<br>L   | <br>               | <br>                | <br>            |      | <br>    | М                | <br>                               | <br>  M         | <u> </u>  | <br>  <u> </u>    | <br>               | <br>      | l<br>L              | <br>                 | <br>               | <u> </u><br>              | <br>                  | <br>  <u> </u>        | <br>         | <br>         | <br>         |

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Temp = temperature

= dissolved oxygen

= total suspended solids TSS

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

= total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics Cl = chlorides

рH = pH Trans = transparency

Alk = alkalinity

= total phosphorus TOC = total organic carbon

 $\begin{array}{lll} \text{NH}_3 & \text{NH}_4 & = \text{ ammonia} \\ \text{NO}_2 & \text{NO}_3 & = \text{ nitrate-nitrite} \\ \end{array}$ 

Sed = sediment (routine) Sed Org = sediment organics

Metals = heavy metals

Fecal Coli = fecal coliform

Total Coli = total coliform  $BOD_5 = 5$ -day biochemical

Sample Stations: Florence

| Station<br>No. | Temp  | DO               | :<br>  рН<br>  | <br> Salt <br> <br>                               | Condt | 1<br>  TSS<br> | <br> Turb <br> | <br> Color <br> | Trans      | Alkl     | Hard     | BOD <sub>5</sub> | NH<br>  NH<br>  NH<br>  L | NO <sub>2</sub><br>  NO <sub>3</sub> | TKN  <br>     | ΤP               | <br>  TOC<br> <br> | cl<br>  cl    | Phen   | Metals         | <br> Pest<br> PCBs | Other<br>Org*     | Total<br>  Coli          | Fecal<br>  Coli  | Flow            | -                 | Sed<br>  Org      |
|----------------|---|------------------|----------------|---|-------|----------------|----------------|-----------------|------------|----------|----------|------------------|---------------------------|--------------------------------------|---------------|------------------|--------------------|---------------|--------|----------------|--------------------|-------------------|--------------------------|------------------|-----------------|-------------------|-------------------|
| PD-255         | l<br>l m  | <br>  M          | <br>  M        | [<br>   |       |                | <br>  M        |                 | <br> I     |          | <br>     | М                | <br>                      | <br>  <u> </u>                       | <br>          | <u> </u>         | <br>               | l<br>L        | <br>   | <br>           | <br>               | <br>              | <br>                     | <br> _м          | <br>            | <br>              | <br>              |
| PD-256         | <br><u>                                    </u>   | <br>  M          | <br><u>  м</u> | <br>  |       | <br>           | <br>  <u>M</u> |                 | <br> 1     |          | _ A_     | М                | !<br>!                    | <br>  M                              | <br>          | ,<br>M           | <br>               | <br>          | <br>   | <br>  A_       | <br>               | <br>              | <br>                     | <br>  <u> </u>   | !<br>!          | <br> A            | l<br>L            |
| PD-258         | <br><u>                                    </u>   | <br><u>  M</u>   | <br>  <u> </u> | <br>  |       | <br>           | <br>  M        | ]<br>]          | . <b> </b> |          | <br>     | М                | <br>                      | <br>  <u> </u>                       | !<br>!        | <br>  <u> </u>   | l<br>              | <br>          | <br>   | <u> </u>       | <br>               | l<br>L            | <br>                     | <br>  M          | l<br>L          | l<br>L            | <br>              |
| PD-268         | <br>  M   | <br>  M          | <br>  м        | <u> </u>  |       | <br>           | M              | M               | <br>       |          |          | М                | !<br>                     | <u> </u>                             | l :           | M                | <br>               | <br>          | <br>   | <br>           | <u> </u>           | !<br>             | <br>                     | <br>  M          | <u> </u>        | <br>              | <br>              |
| PD-281         | ]<br>  M  | <br>  <u>  M</u> | <br>  <u>м</u> | <br>  |       | ]<br>          | <br>  M        | <br>  M         |            | <u>M</u> | <br>  A  | M                | <br>  <u> </u>            | <u> </u>                             | <br>  M       | <br>  <u> </u>   | <br>  0            | <br>          | <br>   | <br>  <u>0</u> | <u> </u>           | <br>              | !<br>!                   | ]<br>  <u>M</u>  | <br>  M_        | <br>              | <u> </u>          |
| PD-306         | <br>  M   | <br>  M          | <br>  <u>м</u> | <br>  |       | l<br>L         | <br>  M        |                 |            |          |          | М                | <br>                      | <br>  <u> </u>                       | <br>          | <u> </u>         | l<br>L             | <u> </u>      | !<br>! | <u> </u>       | <br>               | !<br>!            | <br>                     | <br>  <u>M</u>   | !<br>!          | <br>!             | <br><u> </u>      |
| PD-310         | <br>  M   | <br>  M          | <br>  <u> </u> |   |       | <br>           | M              | <u> </u>        | ·          |          |          | М                | <br>                      | <br>  <u> </u>                       | <br><u> </u>  | <br>  <u> </u>   | !<br>!             | !<br><u> </u> | <br>   | l<br><u>L</u>  | <br>               | <br><u> </u>      | !<br>!                   | <u> </u><br>  м' | l<br>!          | !<br><del>!</del> | !<br>             |
| PD-319         | ]<br><u>                                     </u> | <br>  <u>M</u>   | <br><u>М</u>   | <u> </u>  |       | <br>           | <br>  <u>M</u> |                 | <br>       |          |          | М                | !<br><del>!</del>         | <br> M                               | !<br>!        | <u> </u>         | <br>               | ]<br>!        | !<br>! | !<br>!         | !<br>!             | !<br>!            | ]<br>                    | <br>  <u>  M</u> | !<br>!          | !<br><del>!</del> | !<br>             |
| PD-320         | <br>  M   | <br>  <u>M</u>   | <u>М</u>       | <u> </u>  |       | <u></u>        | <br>  M        |                 |            |          |          | М                | !<br>!                    | <br>  <u> </u>                       | !<br>!        | <u> </u>         | <br>               | !<br>!        | <br>   | <u> </u>       | !<br>!             | !<br><del> </del> | !<br>!                   | l<br><u>  M</u>  | !<br>!          | !<br>!            | !<br><del>!</del> |
| PD-321         | <u> </u><br><u>  м</u>                            | <br>  M          | M              | <u> </u>  | ,     | <br>           | <br>  <u>M</u> | <u> </u>        |            | _        | A        | М                | !<br><del>!</del>         | <br>                                 | !<br><u> </u> | M                | ]<br><u> </u>      | !<br><u>!</u> | !<br>! | <br> A         | !<br>!             | !<br>!            | <br>                     | <br><u>  M</u>   | !<br>!          | <br> ^_           | <br><u> </u>      |
| PD-325         | }<br>  <u>M</u>                                   | <br>  M          | <u> </u>       |   |       | !<br>!         | М              |                 |            | М        | Α        | М                | <br>  M                   | <br>  <u>M</u>                       | <br>  M       | <u> </u>         | <br>  0            | !<br>!        | !<br>! | <br>  0        | !<br><del> </del>  | !<br><del> </del> | <u> </u><br><del> </del> | )<br>  M         | ]<br>  M        | ]<br>             | <u> </u>          |
| PD-330         | <br>  M   | <br>  M          | <u>  M</u>     |   |       |                | <br>  M        | M               | <br>       |          | <u></u>  | М                | !<br>!                    | <br>  <u> </u>                       | ļ<br><u></u>  | l,<br><u>  M</u> | !<br>!             | <br>          | <br>   | <u> </u>       | !<br>!             | <br>              | <u> </u>                 | <br>  M          | !<br>!          | !<br>!            | !<br><u>!</u>     |
| PD-332         | <br>  M   | <br>  M          | <u>М</u>       | !  <br>   |       |                | <br>  M        |                 | <br>       | М        | Α.       | М                | <br>  M                   | <br>  <u>M</u>                       | <br>  M       | <br>  <u> </u>   | <br>  0            | <br>          | !<br>  | <br>  <u>0</u> | <br>  A_           | <u> </u>          | <u> </u>                 | <br>  M          | •<br>  <u>M</u> | <br>  A           |                   |
| ST-018         | [<br>  M  | [<br>  M         | M_             |   |       |                | M              |                 | <br>       |          |          | М                | !<br>                     | M                                    |               | M                | !<br>!             | !<br>         | !<br>  | <u> </u>       | <u> </u>           | !<br>             | !<br>!                   | <br>  M          | !<br>           | <u> </u>          | <u> </u>          |
| ST-024         | !<br><u>  M</u>                                   | i<br>i M         | M              | !  <br><u>                                   </u> |       |                | M              |                 |            | _M       | <br> _A_ | М                | <br>  <u>M</u>            | <br>  M                              | <br>  M       | <br>  <u>M</u>   | <br>  Q            | I<br>         | !<br>! | <br>  Q        | 1                  | 1                 | 1<br>1                   | <br>  M          | !<br>  M        | l<br>             | !<br>             |

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TSS = total suspended solids

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 $\begin{array}{ll} \text{NH}_3 & \text{NH}_4 & = \text{ ammonia} \\ \text{NO}_2 & \text{NO}_3 & = \text{ nitrate-nitrite} \end{array}$ 

Sed = sediment (routine) Sed Org = sediment organics

Metals = heavy metals

Fecal Coli = fecal coliform

Total Coli = total coliform  $BOD_5 = 5$ -day biochemical

Sample Stations: Greenville

| Station<br>No. | Temp  | DO<br> <br>    | <br>  pH<br>    | Salt    | Condt    | 7SS      | Turb            | Color<br> <br> <br> | Trans    | Alki<br> | Hard    | BOD <sub>5</sub> | NH<br>  NH<br>  NH<br>  4 | NO <sub>2</sub><br>  NO <sub>3</sub> | TKN      | тР<br>  ТР     | TOC      | cı<br> <br> | Phen     | <br> Metals<br> <br> | Pest<br> PCBs | Other<br>Org* | <br>  Total<br>  Coli | Fecal<br>  Coli | <br> Flo₩<br> <br> | Sed          | Sed<br>  Org |
|----------------|---|----------------|-----------------|---------|----------|----------|-----------------|---------------------|----------|----------|---------|------------------|---------------------------|--------------------------------------|----------|----------------|----------|-------------|----------|----------------------|---------------|---------------|-----------------------|-----------------|--------------------|--------------|--------------|
| B-005          | <br>  M   | <br>  M        | <br>  M         | !<br>   |          | !<br>    | <br>  <u>M</u>  | !<br>               | <u> </u> |          | <br>    | М                | <br>                      | M                                    | <br>     | M              | <br>     | <br>        | <u> </u> | !<br>                | <br>          | ]<br>         | <br>                  | <br>  M         | <br>               | <u> </u>     | <u> </u>     |
| B-008          | <br>  M   | <br>  M        | ]<br>] M        | l  <br> | <br>     | <br>     | <br>  M_        | <br>                | <br>     | M        | <br>  A | <u> </u>         | <br><u> </u>              | <br>! м                              | <br>  M  | <br>  <u> </u> | ]<br>  Q | <br>        | <br>     | <br>  <u>  0</u>     | <br>          | l<br>L        | <br>                  | <br>  M         | <br>  м            | <br>         | <br>         |
| B-012          | <br>  M   | <br>  M        | <br>  <u> </u>  |         |          |          | l<br>L M        | <br>                | <br>     |          | <br>    | М_               | <br>                      | <br>  м                              | <br>     | M              | <br>     | <br>        | <u> </u> | <u> </u>             | l<br>L        | 1             | <br>                  | <br>  M         | <br>               | l<br>1       | <u> </u><br> |
| B-019          | <br>  M   | <br>  M        | ]<br>  <u>M</u> | <br>    | ļ        | <u> </u> | ]<br>  <u>M</u> | ]<br>               | l 1      |          | <br>    | м                | ]<br>]                    | J<br>M                               | <br>     | <br>  <u>M</u> | ]<br>    | <br>        | <u> </u> | 1<br>1               | 1<br>L        | l<br>L        | <br>                  | <br>  <u> </u>  | <br>               | !            | <u> </u><br> |
| B-020          | <br>  M   | <br>  <u>M</u> | <br> м_         | <br>    | ļ        | ·  <br>  | <br>  <u>M</u>  | <br>                | l  <br>L |          | <br>    | М                | [<br>[                    | <br>  <u> </u>                       | <br>     | <u> </u>       | <br>     | <br>        | <u> </u> | [<br>                | l<br>1        | <u> </u>      | <u> </u>              | <br>1_м         | 1<br>              | <u> </u>     | ·<br>        |
| B-021          | <br>  M   | <br>  M        | <u>М</u>        |         |          |          | M               | l<br>L              | <br>     | М        | <br>    | м                | <br>  M                   | <br><u>  м</u>                       | <br>  M  | <u> </u>       | <br>  Q  | <br>        |          | <br>  0              | <br>          | <br>          | <br>                  | <br>  <u> </u>  | <br>  <u> </u>     | <u> </u>     | <br>         |
| B-026          | <br>  M   | M              | <br>  M         | <br>    | <br>     |          | <br>  M         | <u> </u>            | <br>     | M        | <br>  A | М                | <br>  M                   | L M                                  | <br>  M  | <u> </u>       | <br>  Q  | <br>        | <u> </u> | <br>  <u>a</u>       | ]<br> A       | <br>          | <br>                  | <br>  <u> </u>  | <br><u>  M</u>     | <br>         | <u> </u>     |
| B-028          | <br>  | M              | <br>  м         | <br>    | <br> l   | <br>     | <br>  M         | <br>                | <br>     |          | <br>    | М                | !<br>!                    | <br>  M                              | <br>     | M              | <br>     | <br>        |          | <br>                 | 1<br>         | !<br>         |                       | <br>  M         | l<br>1             | l<br>L       | <del> </del> |
| B-035          | <br>  M   | <br>  <u>M</u> | <br>  <u> </u>  | <br>    |          |          | M               | <br>                | <br>     |          | <br>    | М                | <br>                      | M                                    | <br>     | M              | <br>     | <br>        | <u> </u> | l<br>                | [<br>         | [<br>         | <br>                  | [<br>  M        | <u> </u>           | [<br>        | <u> </u>     |
| B-037          | <br><u> </u> м                                  | <br>  M        | <br>  M         | <br>    |          |          | M               | <br>                | <u> </u> |          | <br>    | М                | l<br>L                    | <br>  <u> </u> M                     | <u> </u> | , <b>M</b>     | <u> </u> | ,<br>[]     | <br>     | <br>                 | <br>          | !<br>         | l<br>                 | <br>  M         | <br>               | <br><u> </u> | 1            |
| в-038          | <br><u>                                    </u> | <br>  M        | <br>  M         | <br>    | <br>     |          | M               | <br>                | <br>     |          | <br>    | М                | l<br>L                    | M                                    | <br>     | M              | <br>     |             | <br>     | l<br>                | <br>          | <br>          | <br>                  | <br>  <u> </u>  | <br>               | <br>         | <br>         |
| B-041          | [<br>  M_                                       | M              | M               |         | l        |          | М               | !<br>!              | [<br>    | М        | <br>  A | м                | í<br>  M                  | M                                    | <br>  m  | M              | <br>  Q  |             | l<br>L   | <br>  Q              | <u> </u>      | <br>          | ł<br>1                | <br>  M         | <br>  M            | <u> </u>     | <u> </u>     |
| B-097          | <br>  M   | М              | M               | <br>    |          |          | M               | l<br>!              |          |          | <br>    | м                | <br>                      | <u> </u>                             | <u> </u> | M              | <br>     |             | <br>     | <u> </u>             | <br>          | l<br>         | <u> </u>              | ]<br><u>Į</u> м | l<br>              | I<br>        | <u> </u>     |
| B-099A         | <br>  M   | M              | <br>  M         | <br>    | <u>1</u> |          | M               | <br>                | <br>L    | ,        | <br>    | М                | <br>                      | M                                    | <br>     | M              | <br>     |             | <u> </u> | <br>                 | !<br>!        | <br>          | <br>                  | <u> </u>        | l<br>L             | <br>         | <br>         |
| в-099в         | l<br>L m  | <br>  M        | <br>  M         |         | 1        | '  <br>  | <br>  M         |                     |          | į        |         | м                | <br>                      | M                                    |          | M              | <u> </u> |             | ]<br>    | 1                    |               |               | !                     | ]<br>  M        | ]                  | ]<br>        | 1            |

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= dissolved oxygen

TSS = total suspended solids

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Sed Org = sediment organics Metals = heavy metals Fecal Coli = fecal coliform Total Coli = total coliform  $BOD_5 = 5$ -day biochemical oxygen demand

| Station<br>No. | <br> Temp<br>                                   | <br>  DO<br>     | <br>  pH<br> <br>  | <br> Salt<br> <br> | <br> Condt<br> <br> | <br>  TSS<br> <br>                             | <br> Turb<br> <br>                              | <br> Color <br> | <br> Trans <br> | Alki<br> | <br> Hard <br>                               | BOD_5     | <br>  NH <sub>3</sub><br>  NH <sub>4</sub><br> | <br>  NO <sub>2</sub><br>  NO <sub>3</sub> | <br> TKN<br>                                 | <br>  TP<br> | <br>  TOC<br> <br>                             | <br>  Cl  <br>                                 | <br>  Phen<br> | <br> Metals<br> <br>                           | <br> Pest<br> PCBs<br>                        | <br>  Other<br>  Org*<br>                    | <br>  Total<br>  Coli<br>                      | <br>  Fecal<br>  Coli<br>                    | <br> Flow<br>                                    |  | <br>  Sed<br>  Org* |
|----------------|---|------------------|--------------------|--------------------|---------------------|--|---|-----------------|-----------------|----------|--|-----------|--|--|--|--------------|--|--|----------------|--|---|--|--|--|--|--|---------------------|
| B-103          | <br>  M   | <br>  M          | l<br>I M           |                    |                     |  | M   |                 |                 |          | <br>   | м         | <br>   | M  |  | <u> </u>     | <br>   | <br>   |                | [<br>  | <br>  | <br>   | <br>   | <br>  M                                      | <br>   | <u> </u>   | <br>                |
| B-113          | <br>  M   | <br>  <u>  M</u> | <br>  <u>M</u>     | <br>               | l<br><u>L</u>       | <u> </u><br>                                   | <br>  <u> </u>                                  | <u> </u>        | <br>            |          | <br>   | <u> M</u> | !<br>!   | <br>  <u>M</u>                             | l<br>  | <u> </u>     | <br>   | <br>   | l<br>L         | <u> </u>                                       | l<br>L  | <br>   | l<br>L   | M  | !<br>  | !<br>!   | ļ<br>•              |
| B-148          | <br>  M   | <br>  M          | I<br><u>I</u> м    | <br>               | <br>                | <br>   | <br>  M   | <br>            | <br>            | М        | A  | М         | <br>  <u>M</u>                                 | <br>  M                                    | <br>  M                                      | <u> </u>     | <br>  Q  | <br>   | <u> </u>       | <br>  0  | <br>  | l<br>L                                       | <br>   | <br>  <u>M</u>                               | <br>  M  | <br>   | <br>                |
| B-149          | <br>  M   | <br>  M          | <br>  <u> </u>     | <u> </u>           | <br>                | <br>   | <br>  <u>M</u>                                  | <br>            | <br>            |          |  | _м_       | l<br>!   | <u> </u>                                   | <u> </u>                                     | <u> </u>     | <u> </u>                                       | [  <br>  | <br>           | !<br>  | !<br>!  | <br>   | !<br>!   | <br>  M                                      | !<br>  |  | <u> </u><br>        |
| B-162          | <br>  M   | <br>  M          | <br>  <u> </u>     | <u> </u><br>       | l<br>               | <br>   | <br>  <u>M</u>                                  | <br>            | <br>            | <br>     | <br>   | м         | l<br><u>I</u>                                  | M  | <u> </u>                                     | <u> </u>     | <br>   | <br>   |                | <u> </u><br>                                   | !<br>   | !<br>!                                       | <br>   | [<br>  | <u> </u>   | <br>   | <u> </u>            |
| B-163A         | <u> </u>  | <br> - M         | <br>  <u> </u>     | <u> </u>           | !<br>               | !<br>  | <br>  <u>  M</u>                                | !<br>!          |                 |          | <br>   | м         | !<br>!   | <u> </u>                                   | 1<br>  | M            | <u> </u>                                       |  | <br>  <u> </u> | <u> </u>                                       | !<br>   | !<br><u> </u>                                | !<br>!   | [<br>  <u>M</u>                              | <u> </u><br>                                     | [<br>  | <u> </u>            |
| B-164          | <br>  <u>                                  </u> | I<br>I M         | <br><u>  M</u><br> | <u> </u>           | l<br>L              | <br>   | <br><u>                                    </u> |                 | <br>            | ,<br>    | <br>   | М         | !<br>!   | <u> </u>                                   | I<br>  | <u>M</u>     | <u> </u>                                       | <u> </u>                                       | <br>  <u> </u> | <u> </u>                                       | !<br>!  | !<br>!                                       | !<br>  | <br>  M                                      | !<br>  | 1<br><u> </u>                                    | <br>                |
| B-186          | <br>  M   | M                | <br>  <u> </u>     | <u> </u>           | l<br>               | <br>   | <br>  <u>M</u>                                  | <br>            | <br>            |          |  | М         | 1<br> <br>(                                    | <u> </u>                                   | 1  | M            | 1  |  |                | !<br>!   | !<br>   | !<br><u> </u>                                | !<br>  | !<br>  M<br>                                 | 1<br>  | !<br> <br>!                                      | <u> </u>            |
| B-191          | М   | M<br>I           | <br>  <u>M</u>     |                    |                     | !<br>!<br>!                                    | !<br>  <u>M</u><br>                             |                 |                 |          | , ,<br>                                      | М         | <u> </u><br>                                   | М  | !<br>!                                       | M            | <u> </u>                                       |  | <br>           | <u> </u><br>                                   | <u></u>                                       | <u> </u>                                     | !<br>  | M  | <u> </u>   | <u></u>  | <u> </u>            |
| B-192          | M   | M<br>            | <u> </u>           | <u> </u>           |                     | 1  | M   |                 |                 |          | A .  | _M        | <u> </u><br>                                   | M  | <u>.                                    </u> | <u> </u>     | <u> </u>                                       |  | <br> <br>      | i A  | <u>.                                    </u>  | <u> </u><br>                                 | <u>.</u><br>                                   | <u>і м</u><br>Ј                              | <u>i</u><br>J                                    |  | <u></u>             |
| B-219          | М   | <u>і м</u><br>(  | М.                 | <u></u>            | i                   | <u> </u>                                       | M   | <br>            | i               |          |  | M         | <br>   | М  | <u></u>                                      | М            | <u></u>  |  |                | <u> </u>                                       |   | <u> </u>                                     | <u>.                                    </u>   | <u> </u>                                     | <u> </u>   | <u> </u>   | <u> </u>            |
| B-221          | M   | M                | <u> </u>           |                    | <br>                | i  | <u> </u>  | <br>            |                 |          | i  | М         |  | M  | <u> </u>                                     | M            | <u> </u>                                       | <br>   | <u> </u>       | <u> </u><br>                                   | i<br>!  | <u> </u><br>                                 | <br>   | <u>і м</u><br>І ,                            | <u> </u>   | <br>   | <br>                |
| B-231          | i m   | M                | <u> </u>           | <u> </u>           | L<br>               | <br>   | <u>  M</u>                                      | <u> </u>        |                 | <u> </u> |  | М         | <u> </u>                                       | <u>M</u>                                   | <u> </u>                                     | <u> </u>     | <u>                                       </u> | <u>                                       </u> | l<br>          | <u>                                       </u> | <u> </u><br>                                  | <u>                                     </u> | l<br>J   | <u>ј м</u><br>Ј                              | <u>                                     </u>     | <u> </u>   | L<br>               |
| B-235          | M   |                  | <u> </u>           | 1                  | <u></u>             | <u>                                       </u> | <u> </u>  | <br>            |                 |          | <u>                                     </u> | <u> </u>  | <u>                                     </u>   | <u> </u>                                   | <u> </u>                                     | <u>M</u>     | 1  | <u>                                       </u> | L              | <u>                                       </u> | <u>                                      </u> | <u> </u><br>                                 | <u>                                       </u> | <u>                                     </u> | <del>                                     </del> | <del>                                     </del> | <del> </del>        |
| B-241          | I M   | М                | М                  |                    | L                   | <u></u>  | M   |                 | 1               |          |  | M         | L  | M  | <b>L</b>                                     | M            |  |  |                | - ***  | <u> </u>                                      | <u> </u>                                     | L  | M<br> - aadi                                 | Ь  | <u> </u>   | <u> </u>            |

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 & \text{NH}_{3} & \text{NH}_{4} & = \text{ ammonia} \\
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Fecal Coli = fecal coliform Total Coli = total coliform

BOD<sub>5</sub> = 5-day biochemical

Sample Stations: Greenville

| Station<br>No. | <br> Temp<br>                                | <br>  DO<br> <br>  | <br>  pH<br> <br> | <br> Salt<br> | <br> Condt<br> <br> | <br>  TSS<br> <br> | <br> Turb<br>  | <br> Color<br> <br> | <br> Trans <br> | Alkl | <br> Hard <br> | BOD <sub>5</sub> | <br>  NH<br>  NH<br>  NH<br> | NO <sub>2</sub><br>  NO <sub>3</sub> | <br> TKN  <br> | TP       | <br>  TOC<br> <br> | <br>  Cl<br> <br> | <br>  Phen<br> | <br> Metals<br> <br> | <br> Pest<br> PCBs | <br>  Other<br>  Org*<br> | <br>  Total<br>  Coli<br> | <br>  Fecal<br>  Coli | <br> Flow<br> | <br>  Sed    | <br>  Sed<br>  Org* |
|----------------|--|--------------------|-------------------|---------------|---------------------|--------------------|----------------|---------------------|-----------------|------|----------------|------------------|------------------------------|--------------------------------------|----------------|----------|--------------------|-------------------|----------------|----------------------|--------------------|---------------------------|---------------------------|-----------------------|---------------|--------------|---------------------|
| B-242          | <br>  M                                      | <br>  M            | <br>  <u>M</u>    | <br>          | <br>                | <br>               | <br>  M        | l<br>I              | <br>            |      |                | М                | <br>                         | M                                    | <u> </u>       | M        | <br>               | <br>              | l<br>          | <br>                 | <br>               | l<br>L                    | [<br>[                    | <br>[M                | [             | <b> </b><br> | <br>                |
| B-259          | <br>  M                                      | <br>  M            | M                 | <br>          | <br>                | <br>               | <br>  <u> </u> | l<br>L              | <br>            |      | <br>           | <u> </u>         | <br>                         | M                                    | <br>           | M        | <br>               | <br>              | l<br>L         | !<br>                | <br>               | <br>!                     | ]<br>]                    | <br>  м               | <br>          | <br>         | <br><b> </b>        |
| B-263          | [<br>  M                                     | [<br><u>  M</u>    | <br>  <u> </u>    | <u> </u>      | [<br>               | [<br>              | M              | !<br>               | [               |      |                | М                | [<br>                        | M                                    |                | <u> </u> | /<br>              | !<br>!            | <br>           | !<br>!               | <br>               | <br>                      |                           | <u> </u>              | l<br>         |              | <u> </u>            |
| B-277          | <br>  M                                      | <br>  M            | <br>  <u> </u>    | <u> </u>      | <u> </u>            | l<br>!             | M              | <br>                | <br>            |      | <br>           | М                | l'<br>                       | M                                    |                | M        | l<br>!             | <br>              | <u> </u><br>   | <u> </u>             | {<br>              | l<br>!                    | <u> </u>                  | <br>  M               | l<br>L        |              | <u></u>             |
| B-278          | <br>  M                                      | <br>  M            | <br>  <u> </u>    | <u> </u><br>  |                     | !<br>!             | M              | !<br>!              |                 |      | <br>           | M                | <br>                         | M                                    | <br>           | М        | <br>               | <br>              | <br>           | !<br>!               | <br><u> </u>       | <br>                      | !<br>!                    | <br>  <u> </u>        | <br>          | <u></u>      | <u> </u><br>        |
| B-301          | M  | M                  | <br>  <u> </u>    | <u> </u>      |                     | )<br>              | M              | !<br><u> </u> -     | ]<br>           |      | <br>           | М                | !<br>                        | <u> </u>                             |                | M        | <br>               | !<br>!            | !<br>!         | <u> </u><br>         | !<br>!             | <br>                      | !<br>!                    | <br>  <u>  M</u>      | <u> </u>      | <br>         | <u> </u>            |
| B-302          | <br>  M                                      | <br>  M            | <br>  M           | <u> </u>      | <u> </u>            | l<br>L             | M              | !<br>!              |                 |      | i<br>          | М                | !<br><u> </u>                | M                                    |                | M        | !<br>              | !<br>!            | <br>           | <u> </u><br>         | !<br>[             | <br>                      | <u> </u>                  | <br>  <u>  M</u>      | <u></u>       | Α            | <u> </u>            |
| B-315          | <br>  M                                      | <br>  <u>M</u><br> | <br>  <u> </u>    | <u> </u><br>  |                     | !<br>              | <br>  M        | <u> </u>            |                 |      |                | M                | <br>                         | M                                    |                | M        | <br>               | !<br>!            | !<br><u> </u>  | !<br>                | !<br>              | !<br><u> </u> -           | !<br>!                    | М                     | <br>          | <br>         | ļ                   |
| B-317          | <u>                                     </u> | <br>  M            | <u> </u>          | <u> </u>      |                     | ]<br>[             | М              | <br>                | !<br>!!         | М    | <br>  A        | М                | M                            | М                                    | <u> </u>       | M        | <br>  <u>  q</u>   | !<br>!!           | !<br>!         | 1 0                  | !<br>!             | <u> </u><br>              | !<br>                     | <u> </u>              | М             |              | <u></u>             |
| B-321          | <u>  M</u>                                   |                    | M                 |               | <br>  <br>          | <br>               | <br>  M        | <br>                |                 | М    | A              | M                | M                            | M                                    | M              | M        | !<br>  Q<br>!      | <u> </u>          | !<br>!         | <br>  <u> </u>       | <br> <br>          | 1<br><br>1                |                           | <br>  <u>  M</u>      | M             |              | <u></u>             |
| BE-001         | <u>  M</u>                                   | M                  | <u> </u>          |               |                     |                    | M              | <br>                | <br>  <br>      | _м   | A              | <u> M</u>        | M                            | <u> </u>                             | M              | M        | (<br>  Q<br>       | <u>.</u><br>1     | /<br><br>!     | <u> </u>             | !<br> <br>         | !<br>                     | ,<br>[                    | <br>  M               | M             | A            |                     |
| BE-007         | <u>ј м</u>                                   | M                  | M                 |               |                     |                    | M              | !<br>  <br>         |                 |      |                | М                | <br>                         | M                                    | ·              | M        | !<br>[<br>         | <br>              | ! .<br>!       | !<br><br>!           | <br> <br>          | !<br> <br>                | !<br>                     | <u>М</u>              | <br>          | <br>         | Ĺ<br>I              |
| BE-009         | <u>  M</u>                                   | M                  | M                 |               |                     |                    | M              |                     | <br>  <br>      |      | <br>  <br>     | М                | <br>                         | М                                    |                | M        | <br> <br>          | <br>              | <br>           | <u> </u><br>         | <u> </u><br>       | <br>                      | <br>                      | <u>М</u>              |               |              | <br> <br>           |
| BE-015         | <u>  м</u><br>                               | М                  | M                 |               |                     |                    | <u>M</u>       |                     |                 |      | <br>  <br>     | M                |                              | М                                    |                | М        | <u></u>            | <u> </u>          | <br>           | <u> </u>             | <br>               | <u> </u><br>              | <u> </u>                  | м<br>                 |               |              | <br>I               |
| BE-018         | М  | M                  | M                 |               |                     | Ĺ                  | М              | <u></u>             | tomo            |      |                | M                |                              | M                                    |                | М        |                    | <u></u>           | <u> </u>       |                      | <u> </u>           |                           |                           | M                     | <u></u>       |              | <u></u>             |

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

= dissolved oxygen

TSS = total suspended solids

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

= total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics Cl = chlorides

рH = pH Trans = transparency

Alk = alkalinity

= total phosphorus TOC = total organic carbon

 $\begin{array}{ll} \text{NH}_{3} & \text{NH}_{4} = \text{ammonia} \\ \text{NO}_{2} & \text{NO}_{3} = \text{nitrate-nitrite} \\ \end{array}$ 

Sed = sediment (routine) Sed Org = sediment organics

Metals = heavy metals

Fecal Coli = fecal coliform

Total Coli = total coliform  $BOD_5 = 5$ -day biochemical

| Station<br>No. | <br> Temp<br>       | <br>  DO<br>                                    | <br>  pH<br>         | <br> Salt<br> | <br> Condt<br> <br> | <br>  TSS<br> <br> | <br> Turb<br> <br> | <br> Color<br> | Trans    | Alkl         | <br> Hard <br> | BOD <sub>5</sub> | <br>  NH<br>  NH<br>  NH<br> | NO <sub>2</sub> | <br> TKN<br> <br> | TP       | <br> TOC<br> <br>  | <br>  cl<br> | <br>  Phen<br> <br>                          | <br> Metals<br> <br>                          | <br> Pest<br> PCBs | <br>  Other<br>  Org*<br> | <br>  Total<br>  Coli | <br>  Fecal<br>  Coli<br> | <br> Flow      | Sed      | <br>  Sed<br>  Org*<br>                            |
|----------------|---------------------|---|----------------------|---------------|---------------------|--------------------|--------------------|----------------|----------|--------------|----------------|------------------|------------------------------|-----------------|-------------------|----------|--------------------|--------------|--|---|--------------------|---------------------------|-----------------------|---------------------------|----------------|----------|--|
| BE-020         | <br>  M_            | <br>  M   | <br>  <u>M</u>       | <br>          | <br>                | <br>               | ]<br>[ <u>M</u>    | <br>           |          | <u> </u><br> | <br>           | М                | <u> </u>                     | <br>  <u>M</u>  | <br>              | M        | <br>               | <br>         | <br>   | <u> </u><br>                                  | <br>               | l<br>L                    | l<br>L                | <br>  <u> </u>            | <br>           |          | <br> <br>  |
| BE-024         | <br>  M             | <br>  M   | <br>  M              | <br>          | l<br>L              | <u> </u>           | <br>  M            |                | <u> </u> |              | <br>           | M                | l<br>L                       | <br>  M         | l<br>             | M        | <br>               | <br>         | <br>   | <u> </u>                                      | l<br>!             | <u> </u>                  | <u> </u>              | <br>  м                   | <br>           |          | <br>   |
| BE-035         | <br>  M             | <br>  M   | <br>  M              | <br>          | <br>                | l<br>L             | <br>  <u>  M</u> _ | l<br>L         | <br>     | <br>         | <br>           | М                | !<br>                        | <br>  M         | <br>              | M        | <u> </u>           | <br>         | <br>   | <u> </u>                                      | l<br>L             | l<br>L                    | l .<br>L              | <br>  <u> </u>            | l<br>          |          | <br>   |
| BE-039         | <br>  M             | <br>  <u>                                  </u> | I<br><u>I м</u>      | [<br>         | <u> </u><br>        | !<br>!             | <br><u>  M</u>     | <u> </u>       |          |              | <br>           | М                | -<br> <br>                   | M               | <u> </u>          | M        | <u> </u><br>       | <br>         | <u> </u><br>                                 | <u> </u>                                      | <u> </u><br>       | <br>                      | <u> </u>              | I<br><u>I м</u>           | <br>           |          |  |
| BE-040         | <br>  M             | <br>  <u>  M</u>                                | <br>  <u>M</u>       | [  <br>       | <br>                | <br>               | <br>  M            | <u> </u>       |          | <u> </u>     | <br>           | М                |                              | <br>  <u> </u>  | <br>              | <u> </u> | <u> </u>           | <br>         | <u> </u>                                     |   | <br>               | [<br>[                    | <u> </u>              | <br>  <u>M</u>            | <u> </u>       | <br>     | <br>   |
| BL-001         | <br>  M             | M   | <br>  <u>M</u>       | i<br>         | M                   | <br>  <u>M</u>     | <br>  M            |                |          | M            | <br>  A        | М                | <br>  <u> </u>               | <u> </u>        | <u> </u>          | M        | <br>  M            | <br>         | l<br>  | <br>  <u>a</u>                                | <br> A             | <br>                      | !<br>!                | <br>  H                   | <br>  <u>M</u> | <b>A</b> | !<br>  |
| BL-005         | <br>  M             | <br>  M<br>                                     | i<br><u>  M</u><br>! |               | <br>                | !<br>!<br>;        | M                  | <u> </u>       |          |              | <br>           | M                | !<br>!                       | M               | <br>              | <u> </u> | !<br>!             | <br>         | !<br>  | <u> </u><br>                                  | l<br><u> </u>      | !<br>!                    | l<br>L                | <br>  <u>M</u>            | l<br>          |          | ;<br>  |
| BP-001         | i<br><u>  M</u><br> | !<br><u>  M</u>                                 | !<br><u>  M</u><br>  |               |                     | <u>.</u>           | M                  | <u> </u>       |          |              | ! !<br>!!      | M                | !<br>!                       | <u> </u>        | <br>              | <u> </u> | !<br>!             | !<br>!       | !<br>!                                       | !<br>   | <u> </u><br>       | !<br>!                    | l<br>                 | I<br><u>  м</u>           | ]<br>          | <br>     | ,<br><u>                                      </u> |
| S-004          | <u> </u>            | <br>  M<br>                                     | <br>  <u>M</u>       |               |                     | l<br>              | <br>  <u>M</u>     | <u></u>        |          |              | <u> </u>       | М                | !<br>!                       | M               |                   | M        | !<br>!             | !<br>        | <br>   | <u> </u>                                      | !<br><br>i         | !<br>                     | !<br>                 | <br>  <u>     </u>        | !<br>!         |          | ,<br>  |
| s-005          | <u> </u><br>  м     | <br>  M   | <u>м</u>             |               | <br>                | l<br>              | <u> </u>           |                | 3<br>    |              |                | M                | <br>                         | M               | L                 | M        | <u> </u><br>       | l<br>L<br>I  |  | 1   | <br> <br>          | !<br><u> </u><br>         | !<br>!                | !<br><u>  M</u><br>!      |                |          |  |
| s-007          | <u>  M</u>          | <u>  M</u>                                      | <br>  <u>M</u><br>   |               |                     | <br>               | M                  |                |          | M            | <br> A_ <br>   | М                | М                            | M               | <u> </u>          | M        | <u>0</u>           | <br>         | !<br>  | <u>                                     </u>  | _ A                | !<br><u>}</u>             | <br>  <br>            | <u> </u>                  | <u> </u>       | Α        |  |
| s-010          | <u>і м</u><br>І     | M   | М                    |               |                     |                    | M                  |                | 1        |              |                | М                | !<br>                        | М               |                   | M        | <u> </u><br>       | l<br>L<br>l  | !<br> <br>                                   | <u> </u><br>                                  | <br> <br>          | <br> <br>                 | !<br>                 | <u>Н</u>                  |                |          |  |
| s-013          | <u>і м</u><br>І     | <u>М</u>  | <br>  M              |               |                     |                    | M                  |                | I        | М            | A              | М                | М                            | М               | M                 | M        | <br>  <u>0</u><br> |              | <u> </u>                                     | Q<br>  Q                                      |                    | <u> </u><br>              |                       | <u>М</u>                  | <u>м</u>       |          |  |
| \$-018         | <u>і м</u><br>І     | <u>  M</u>                                      | М                    |               | М                   | М                  | М                  | <br>           |          | M            | A              | M                | M                            | М               | M                 | <u> </u> | <u>М</u>           |              | <u>.                                    </u> | <u>                                      </u> | Α                  |                           |                       | <u>н</u><br>              | <u>н</u>       |          | A  |
| s-021          | <u>i</u> m          | М   | М                    |               |                     |                    | М                  | نــــــا       | <u>.</u> | М            | A              | М                | М                            | М               | М                 | М        | <u> </u>           |              |  | i Q   | A                  | I                         | <u> </u>              |                           | М              | A        | <u>.                                    </u>       |

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

= dissolved oxygen

= total suspended solids

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

= total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics

= chlorides

рH = pH Trans = transparency

Alk = alkalinity

= total phosphorus

TOC = total organic carbon

 $\begin{array}{lll} & \text{NH}_{3} & \text{NH}_{4} & = \text{ ammonia} \\ & \text{NO}_{2} & \text{NO}_{3} & = \text{ nitrate-nitrite} \end{array}$ 

Sed = sediment (routine)

Sed Org = sediment organics

Metals = heavy metals

Fecal Coli = fecal coliform

Total Coli = total coliform

 $BOD_5 = 5$ -day biochemical

| Station<br>No. | Тетр    | <br>  DO<br> <br> | <br>  pH<br> <br> | <br> Salt<br> <br> | <br> Condt<br> | TSS      | <br> Turb<br> <br> | Color <br> | Trans           | Alkl     | <br> Hard <br> | BOD <sub>5</sub> | NH<br>3<br>  NH<br>4 | NO<br>  NO<br>  NO<br>3 | <br> TKN | TP             | тос            | Cl       | Phen          | <br> Metals<br> | Pest<br> PCBs | Other<br>Org* | Total<br>  Coli | Fecal<br>  Coli | Flow           | Sed              | Sed<br>  Org |
|----------------|---------|-------------------|-------------------|--------------------|----------------|----------|--------------------|------------|-----------------|----------|----------------|------------------|----------------------|-------------------------|----------|----------------|----------------|----------|---------------|-----------------|---------------|---------------|-----------------|-----------------|----------------|------------------|--------------|
| s-022          | <br>  M | <br>  M           | M                 | <u> </u><br>       | l<br>L         |          | <br>  <u>M</u>     |            |                 |          |                | М                | <br>                 | <br>  M                 | <br>     | <u> </u>       | <br>L          | l<br>L   | <br>          | l<br>L          | l<br>L        | l<br>L        | l<br>           | <br>  <u> </u>  | <br>           | <br>             | <u> </u>     |
| s-034          | <br>  M | <br><u>  м</u>    | <br>  <u> </u>    | <br>               | <br>           | <br>     | <br>  M            | <br>       | <br>            | M_       | A              | M                | <u>м</u>             | <br>  M                 | M        | М              | <br>  Q        | <br>     | <br>          | <br>  0         | <br>          | <br>          | <u> </u><br>    | <br>  M         | <br>  <u> </u> | !<br>!           | <u> </u><br> |
| s-035          | <br>  M | <br>  M           | <br>              | <u> </u>           | <br>           | <br>     | <br>  M            | <br>       |                 |          | <br>           | М                | <br>                 | <br>  <u>м</u>          | <br>     | <u> </u>       | <br>           | <br>     | ·<br>-        | <br>            | !<br>         | <br>          | <br>            | M               | <br>           | [<br>            | <br>         |
| s-063          | <br>  M | <br>  M           | <br>  <u>M</u>    | <br>               | <u> </u>       | • `<br>  | <br>  M            | <br>       |                 |          | <br>           | М                | l<br>I               | ј<br><u>м</u>           | <br>     | <u> </u>       | <br>           | <br>     | <br>          | <br>            | <br>          | <br>          | <br>            | М               | <br>           | <br>             | <br>         |
| s-067          | <br>  M | <br>  <u>M</u>    | <br>  M           | <br>               | l<br>L         |          | M                  | <br>       |                 |          |                | м                | <br>                 | <br>  M                 | <br>     | M              | <br>           | <u> </u> | <br>          | <br>            | 1             | <br>          | <br>            | <br>  <u> </u>  | !<br>!         | !<br>!           | <br>         |
| s-072          | <br>  M | <br> <br>  M_     | <br>  M           | <br>               | i<br>I         | l        | M                  | <br>       |                 |          | <br>           | м                | i<br>!               | <br>  M                 | <br>     | M.             | <br>           | <br>     | <br>          | <br>            | 1<br>1        | -<br> -       | !<br>!          |                 | <br>           | l<br>L           | <br>         |
| s-073          | <br>  M | <br>  M           | <br>  <u>M</u>    | <br>               | l<br>!         |          | М                  |            |                 | M        | A              | М.               | {<br>  м             | <br>  м                 | ј<br>ј м | M              | <br>  <u>0</u> | <br>     | <br>          | <br>  Q         | <br>          | <br>          | l<br>           | <br>  M         | <br>  <u> </u> | I<br><u>L ^ </u> | <u> </u>     |
| s-084          | <br>  M | <br>  M           | <br>  <u> </u>    | <br>               | !<br>!         | l<br>L   | ,<br>M             | <u> </u>   |                 |          |                | М                | 1<br>                | <br>  M                 | 1        | М              | l<br>L         | <br>     | <u> </u>      | <br>            | .l            | <br>          |                 | <br>  <u>M</u>  | i<br>          | l<br>I           | <br>         |
| s-087          | <br>  M | <br>  <u>M</u>    | <br>  <u>M</u>    | <br>               | <u> </u>       | <u> </u> | M                  | <u> </u>   | <br>            |          |                | M                | <br>                 | <br>  M                 | <br>     | <u> </u>       | <br>           | I<br>    | l .<br>L      | <br>            | <br>          | ]<br>]        | <u> </u>        | <br>  M         | <br>           | l<br>1           | <br>         |
| s-088          | M       | M                 | <br>  M           | <u> </u>           | <br>           |          | M                  | <br>       | <br>            | <u> </u> | <br>  A        | М                | <br>  м              | <br>  M                 | <br>  M  | M              | <br>  <u> </u> | l<br>L   | <br>          | l q             | ]<br>]        | <br>          | <br>            | і<br><u>і м</u> | <br>  M        | <br>             | <u> </u>     |
| s-091          | M       | <br>  M           | <br>  M           | <br>               | <br>           | l<br>L   | M                  | <br>       | <br>            |          | <br>           | М                | <br>                 | <br>  м_                | <br>     | <br>  M        | <br>           | <br>     | l<br><u>L</u> | <br>            | <br>          | l<br>L        | <br>            | <br>  <u> </u>  | [<br>          | <br>             | <br>         |
| s-096          | <br>  M | M                 | <br>  <u>M</u>    | 1<br>              | <br>           | <u> </u> | <br>  M            | <u> </u>   | <br>            | <u> </u> | <br>           | М                | <u> </u><br>         | <br>  <u>M</u>          | <br>     | <u> </u>       | l<br>L         | l<br>    | <br>          | <br>            | !<br>!        | l<br>         | <br>            | <br>  м         | <br>           | <u> </u>         |              |
| s-097          | <br>  M | М                 | <br>  <u>M</u>    | <br>               | l ·            | <u> </u> | <br>  M            | <u> </u>   | · [             | <u> </u> |                | М                | l<br>L               | <br>  <u>M</u>          | <br>     | <br>  <u> </u> | <br>           | l<br>L   | <br>          | ]<br>           | !<br>!        | <br>          | <br>            | <br>  M         | <br>           | I<br>I           | <u> </u>     |
| s-119          | <br>  M | <br>  <u>M</u>    | <br>  <u>м</u>    | <br>               | l<br>L         | <u> </u> | <br>  M            | <br>       | ·          <br> |          |                | М                | <br>                 | <br>  M                 | 1<br>1   | <br>  <u>M</u> | <br>           | <br>     | l<br>J        | l<br>.l         | <br>          | <u> </u>      | <br>            | <br>  <u>M</u>  | l<br>L         | <br>             | <u> </u><br> |
| s-125          | <br>  M | <br>  M           | )<br>  M          | l<br>L             | <br>  M        | <br>  M  | <br>  M            |            | <br>            | <br>  M  | <br>  A        | M                | <br>  M              | <br>  M                 | <br>  M  | <br>  M        | <br>  M        | <br>     | l<br>L        | <br>  Q         | <br>  A       | <br>  A       | <u> </u>        | <br>  <u>M</u>  | <br>  <u>M</u> | <br>  A          | <br>  A      |

\*Base-Neutral and Acid Extractable, and Volatile Organics

= dissolved oxygen

TSS = total suspended solids

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

= total Kjeldhal nitrogen

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics = chlorides Cl

pН = pH

= total phosphorus TOC = total organic carbon

Alk = alkalinity

 $\begin{array}{lll} \text{NH}_3 & \text{NH}_4 & = \text{ ammonia} \\ \text{NO}_2 & \text{NO}_3 & = \text{ nitrate-nitrite} \\ \end{array}$ 

Metals = heavy metals

Fecal Coli = fecal coliform Total Coli = total coliform

Sed Org = sediment organics

 $BOD_5 = 5$ -day biochemical oxygen demand

| Station<br>No. | <br> Temp<br>                                | <br>  DO<br> <br>                             | <br>  pH<br>                                      | <br> Salt<br>        | Condt    | <br>  TSS<br> | <br> Turb<br> <br>   | <br> Color<br> <br> | Trans | <br> Alkl<br> | Hard  | BOD <sub>5</sub> | <br>  NH<br>  NH<br>  NH<br>4 | NO<br>  NO<br>  NO<br>3 | <br> TKN | TP             | TOC               | <br>  cl<br> | <br>  Phen<br> <br> | <br> Metals<br> <br>                          | <br> Pest<br> PCBs                            | <br>  Other<br>  Org*                         | <br>  Total<br>  Coli                         | <br>  Fecal<br>  Coli | <br> Flow<br> | Sed     | Sed  <br>  Sed |
|----------------|--|---|---|----------------------|----------|---------------|----------------------|---------------------|-------|---------------|-------|------------------|-------------------------------|-------------------------|----------|----------------|-------------------|--------------|---------------------|---|---|---|---|-----------------------|---------------|---------|----------------|
| s-135          | <br>  M                                      | <br>  M                                       | <br>  M   | <br>                 | <u> </u> | l ,<br>L      | <br>  M              | <br>                | l     | <u> </u>      | <br>  | М                |                               | <u> </u>                |          | <u> </u>       | <br>              | !<br>!       | l<br>I              | <br>  | l<br>L  | <br>  | l<br>L  | [<br>  <u> </u>       | [<br>[        | <br>    |                |
| s-138          | <br>  M                                      | <br>  M                                       | <br>  M   | <br>                 | <br>     | <br>          | <br>  M              | !<br>[              |       | M             | Α     | <u> </u>         | <br>  <u> </u>                | М                       | M        | М              | <br>  a           | <br>         | l<br>l              | <br>  0                                       | <br>  |   | l<br>L  | М                     | l<br>M        |         | <br>           |
| s-161          | ]<br><u>  M</u>                              | ·   | •   |                      |          | <br>          | <br>  M              | <br>                |       |               | _ A_  | M                | <br>                          | М_                      |          | M              | <br>              | <br>         | <br>                | <br>  A                                       | <u> </u>                                      | l<br>L  | <u> </u>                                      | <u> </u>              | l ·           |         |                |
| <u>s-168</u>   | <br>  M                                      | ]<br>  M                                      | <br>  M   |                      |          | l<br>L        | <br>  <u>M</u>       | <u> </u>            | <br>  |               | <br>  | <u> </u>         | <br>                          | M                       |          | <br>  <u> </u> | <br>              | <br>         | l<br><u>L</u>       | <br>  | l<br><del>L</del> -                           | !<br>!  | l<br><u> </u>                                 | <u> </u>              | <u> </u>      |         | <br>           |
| <u>s-171</u>   | [<br>  M                                     | <br>  M                                       | [<br><u>                                     </u> |                      |          | -<br>         | <br>  M              | <u> </u>            |       |               |       | М                | <u></u>                       | M                       |          | M              | !<br><del> </del> | !<br>        | <u> </u><br>        | <br>  | !<br>!  |   | <br>  | <u> </u>              | <u> </u>      |         |                |
| s-1 <u>78</u>  | <br>  M                                      | I<br><u>  м</u>                               | <br>  <u>M</u>                                    | ! !<br>!!            | <br>     | <u> </u>      | !<br>! M             | <br>                |       |               | <br>  | М                | <br>                          | M                       | [<br>    | M              | [<br><u></u>      | [<br>        | <br>                | !<br>   | !<br>   | <u> </u>                                      | !<br>L  | <u> </u>              | !<br>         |         | !<br>!         |
| s-231          | <u>                                     </u> | <br><u>  M</u>                                | 1<br>  M  | 1<br>                |          | <br>          | <br>  <u>M</u>       | <u> </u>            |       |               |       | M                | <br>                          | М                       |          | M              | 1<br>             | <br>         | l<br>!              | <u> </u><br>                                  | !<br>   | <br>  | <br>  | <u> </u>              | l<br>1        |         | <br>           |
| s-250          | <br>  M                                      | <br>  M                                       | <br>  <u>M</u>                                    |                      |          | L             | I<br>I M             | <u> </u>            |       | М             | A     | М                | М                             | H                       | М        | M              | <br>  <u>0</u>    | <u> </u>     | <br>                | <br>  <u>  0</u><br>                          | !<br>!  | <br>  | !<br>!  | M                     | I<br><u>М</u> | Α_      | <u> </u>       |
| s-252          | <u> </u> м                                   | <br>  M                                       | !<br>  М_   |                      |          | l<br>         | 1<br><u>  M</u><br>1 | !<br>               |       |               |       | М                | !<br> <br>                    | M                       |          | <u> </u>       | !<br>             |              | !<br>[<br>!         | <u> </u><br>                                  | !<br>   | !<br>!  | !<br>!  | М                     | <br>          |         |                |
| s-264          | M  | <u> </u> M                                    | <u>M</u>  |                      |          |               | )<br>  M<br>         | <u> </u><br>        |       |               |       | М                |                               | М                       |          | M              | !<br>             | !<br> <br>   | !<br>[<br>]         | <br> A  | !<br>   | <br>  | !<br>[<br>I                                   | _ м                   | <u></u>       |         |                |
| s-267          | <u> </u>                                     | <u>і</u><br><u>  н</u><br>                    | <u> </u>  |                      |          |               | <u>Н</u>             |                     |       |               |       | M                | <u> </u>                      | М                       |          | M              | <u></u>           |              | <br>                | <u>.</u><br>!                                 | <u>.                                    </u>  | <br> <br>                                     | <u>.</u><br>                                  | М                     |               |         | <u> </u>       |
| s-289          | <u>                                     </u> | <u>і м</u><br>І                               | <u>м</u><br>І                                     |                      |          |               | <u> </u>             | <u> </u>            |       |               |       | <u> M</u>        |                               | M                       |          | M              | <u>i</u><br>I     |              | <br> <br>           | <u>i                                     </u> | <u> </u>                                      | <br>!   | i   | M                     |               |         | <u>_</u>       |
| s-291          | <u>і м</u><br>І                              | <u>м</u><br>                                  | М   | <br>                 |          |               | <u>  м</u><br>       | !<br>!              | M     | М             | _ A _ | М                | M                             | М                       | М        | M              | <u>  Q</u>        | İ            |                     | <u> </u>                                      | <u>i                                     </u> | <u>                                      </u> | <u>                                      </u> | М                     | <br>          |         | i              |
| s-292          | <u>  M</u>                                   | <u>  M                                   </u> | <u> </u>  | <u>نــــا</u><br>ا ا | [        |               | <u>.</u><br>Н        | <u> </u>            | M I   | М             | A     | М                | М                             | M                       | м        | M              | <u> </u>          | <br> <br>    | <u> </u><br>        | <u>0</u><br>                                  | <u>i a</u><br>I                               | <br>  | <u>  м</u><br>                                | <u> </u>              | L             |         | i              |
| s-296          | M  | M   | M   | ــــــا              | i        |               | М                    | لــــا              |       | М             | Α [   | М                | M                             | М                       | М        | M              | 0                 |              | İ                   | 10  | I A   | ·<br>   | <u> </u>                                      | М                     |               | <u></u> |                |

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

= dissolved oxygen

= total suspended solids

Phen = phenols

Pest = pesticides and PCBs

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Salt = salinity

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 $\begin{array}{rrr}
 \text{NH}_{3} & \text{NH}_{4} & = \text{ammonia} \\
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\end{array}$ 

Sed = sediment (routine) Sed Org = sediment organics

Metals = heavy metals

Fecal Coli = fecal coliform Total Coli = total coliform

BOD<sub>5</sub> = 5-day biochemical oxygen demand

Sample Stations: Greenville

| Station<br>No. | <br> Temp<br>   | <br>  ĐO<br> <br> | <br>  рн<br>   | <br> Salt <br> | <br> Condt <br> | <br>  TSS<br> <br> | <br> Turb <br> | <br> Color <br> | Trans    | <br> Alki | <br> Hard <br> | BOD <sub>5</sub> | <br>  NH<br>  NH<br>  NH<br>  4 | <br>  NO <sub>2</sub><br>  NO <sub>3</sub> | <br> TKN                                       | TP       | <br> TOC<br> <br>                               | <br>  cl                                       | <br>  Phen<br> | <br> Metals<br> <br>                         | <br> Pest<br> PCBs | <br>  Other<br>  Org*<br>                      | <br>  Total<br>  Coli                          | <br>  Fecal<br>  Coli<br> | •               | <br>  Sed<br> <br>                             | <br>  Sed <sup>:</sup><br>  Org*<br>          |
|----------------|-----------------|-------------------|----------------|----------------|-----------------|--------------------|----------------|-----------------|----------|-----------|----------------|------------------|---------------------------------|--|--|----------|---|--|----------------|--|--------------------|--|--|---------------------------|-----------------|--|---|
| sv-004         | [<br>  M        | [<br>  M          | М              |                |                 |                    | M              |                 | 1        |           |                | М                | <br>                            | M  |  | M        |   | <br>   | <br>           | <u> </u>                                     |                    | <br>   | <br>   | <br>  M                   | ł<br>L          | <u> </u>                                       | <br>  |
| sv-015         | <br>  M         | <br>  M           | M              | <br>           |                 | <br>               | M              | <br> 1          |          |           |                | М                | <br>                            | <br>  <u>M</u>                             | <br>   | М        | <br>  | <br>   | <u> </u>       | <br>   | <br>  0            | <u> </u>                                       | <br>   | <br>  M                   | <br>            | <br>   | <br>  |
| sv-017         | <br>  M         | <br>  M           | <u> </u>       | <br>           | <br>            | <u> </u>           | M              | <br>            |          |           | <br>           | м                | <br>                            | <u> </u>                                   | <br>   | <u> </u> | <u> </u>  | <br>   | <u> </u><br>   | !<br>!                                       | <br>               | <br>   | <br>   | <br>  M                   | !<br>!          | !<br>  | <br>  |
| sv-031         | <br>  M         | <br>  M           | <u> </u>       |                |                 |                    | М              | <br>            | <u> </u> | М         | _ A _          | М                | I<br><u>I м</u>                 | M  | M  | М        | <br>  <u>                                  </u> | <br>   |                | <br>  Q<br>                                  | 1<br>              | <br>   | <u> </u><br>                                   | <br>  M<br>               | 1<br>  M_       | <br>   | l<br>   |
| sv-037         | <br>  M         | M                 | <br>  <u> </u> | <u> </u>       | <u> </u>        | <br>               | M              |                 |          |           | <br>  <u> </u> | М                | <br><u> </u>                    | <u> </u>                                   |  | М        | !<br>!  | <br>   | <br>           | <br>  A                                      | !<br>!             | <br>  A  | <u> </u><br>                                   | <br>  M                   |                 | <u>                                     </u>   | <br>  <u>A</u><br>                            |
| sv-041         | <br>  M         | <u>  M</u>        | <br>  <u> </u> |                |                 | <br>               | M              |                 |          |           | <br>  <br>     | М                | !<br>!                          | M  | ;<br>  | M        | <u> </u>  | !<br>  | <br>           | <u> </u><br>                                 | !<br><u> </u>      | !<br><br>!                                     | !<br>  | <br>  M                   | 1               | !<br>  | <br> <br>                                     |
| sv-043         | <br>  M         | <br>  M           | <br>  <u> </u> | <u> </u>       |                 | <br>               | M              | <br>  <br>      | 1        |           | <br>           | М                | <br>                            | M  |  | М        | <u> </u>  | !<br>  | <br> <br>      | <u> </u>                                     | !<br>!             | !<br><u> </u>                                  | !<br>!   | 1<br>  M<br>              | <u> </u>        |  | <u> </u><br>                                  |
| sv-052         | <u> </u> м      | <br>  M<br>       | <u>М</u>       | <u> </u>       | <br>  <br>      |                    | M              | <br>  <u> </u>  |          |           | <br>  <br>     | М                | <u> </u><br>                    | <u> </u>                                   | <u> </u><br>                                   | М        | <u> </u>  | <u> </u><br>                                   | !<br>          | <u> </u>                                     | <u> </u><br>       | <u> </u><br>                                   | <br>   | <u>і м</u>                | <u> </u>        | <u>i                                      </u> | <u> </u><br>                                  |
| SV-053B        | <u>і</u> м<br>І | <br>  M<br>       | <u> </u>       |                |                 | <u> </u><br>       | М              | <u>1</u>        |          |           |                | М                | <u> </u>                        | <u> </u>                                   |  | М        | <u> </u><br>                                    | <u> </u>                                       | !<br>!<br>!    | <u> </u>                                     | <u>.</u>           | <u> </u>                                       | <u> </u><br>                                   | <u>і м</u>                | <u> </u>        | <u> </u>                                       |   |
| sv-098         | i m             | <u>  M</u>        | <u>M</u>       |                |                 | <br> <br>          | М              |                 | <u> </u> | M         | _ <u> </u>     | M                | <u>м</u><br>І                   | <u> </u>                                   | <u>м</u>                                       | M        | <u>i o</u><br>I                                 | <u>i                                     </u>  | i              | <u>i o</u><br>I                              | i A                | <u>.                                    </u>   | <u>i                                     </u>  | <u>і м</u><br>І           | i m             | <u>i                                    </u>   | <u>.</u><br>L                                 |
| sv-100         | <u>і м</u><br>І | <u>  M</u>        | <u> </u>       |                |                 | <br>               | M              | i               |          | М         | A              | <u>M</u> .       | <u>і м</u><br>І                 | <u> </u>                                   | <u>  м</u><br>                                 | M        | <u>  0</u><br>                                  | <u>i                                     </u>  | i              | <u>                                     </u> | <u> </u>           | <br>   | <u> </u><br>                                   | <u>  M</u>                | <u>і м</u><br>І | <u> </u><br>                                   | <br>  |
| sv-106         | <u>і м</u><br>І | M                 | <u> </u>       | 1              |                 | <u> </u>           | <u>M</u>       | <br>            |          |           | <br>           | <u> </u>         | <u> </u><br>                    | <u> </u>                                   | <u>                                       </u> | M        | <u>                                     </u>    | I  | <br>           | <u> </u>                                     | <u>L</u><br>       | <u> </u><br>                                   | <u>                                       </u> | M                         | <u> </u>        |  | <u>                                      </u> |
| sv-107         | M<br>           | <u>M</u><br>      | <u> </u>       | <br>           | <u> </u>        | <u> </u>           | М              | <u> </u>        | <u> </u> |           | <br>           | М                | <u>1</u><br>I                   | <u> </u>                                   | 1  | M<br>M   | l   | <u>                                       </u> | <br>           | <u>                                     </u> | <u>0</u><br>       | <u>                                       </u> | <u> </u><br>                                   | M<br> <br>  M             | <del> </del>    | <u>A</u><br>                                   | <u> </u><br>                                  |

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Sample Stations: Greenville

| Station<br>No: | <br> Temp<br>                                   | <br>  DO<br>   | <br>  pH<br>   | <br> Salt<br> | <br> Condt<br> <br> | <br>  TSS<br> | <br> Turb<br>   | <br> Color<br> <br> | <br> Trans <br> <br> | Alkl | <br> Hard | BOD <sub>5</sub> | <br>  NH<br>3<br>  NH<br>4 | <br>  NO<br>  NO<br>  NO<br>3 | <br> TKN<br> <br> | <br>  TP<br>   | I<br> тос<br> <br> | I<br>  cl<br> | <br>  Phen<br> | <br> Metals<br> <br> | <br> Pest<br> PCBs<br> | <br>  Other<br>  Org* | <br>  Total<br>  Coli | <br>  Fecal<br>  Coli                             |          | Sed          | <br>  Sed<br>  Org*<br> |
|----------------|---|----------------|----------------|---------------|---------------------|---------------|-----------------|---------------------|----------------------|------|-----------|------------------|----------------------------|-------------------------------|-------------------|----------------|--------------------|---------------|----------------|----------------------|------------------------|-----------------------|-----------------------|---|----------|--------------|-------------------------|
| sv-121         | <br>  M   | l<br>M         | <br>  M.       | <br>          | <br>                |               | M               | <br>                | <br>                 | М    | <br>  A   | М                | <br>  M                    | <br>  M                       | <br>  M           | <br>  M        | <br>  0            | <u> </u>      | <br>           | <br>  0              | <br>  <u>A</u>         | <br>  A**             | <u> </u><br>          | <br>  M   | <br>     | _ A          | <br> A                  |
| sv-122         | <br>  M   | <br>  M        | <br>  <u>M</u> | !<br>!        | <br>                | <u> </u>      | M               | l<br>L              | ]  <br>              | М    | <br>  A   | М                | <br>  M                    | <u>М</u>                      | I<br><u>I</u> м   | <br>  <u> </u> | <br>  0            | l<br>1        | l<br>!         | 1 0                  | <br>  A                | <br>  <u>A**</u>      | <br>                  | <br>  <u> </u>                                    | <u> </u> | A            | <br>  A                 |
| sv-135         | <br><u>                                    </u> | <br>  M        | <br><u>  м</u> | <br>          | <br>                | <br>L         | <br> - <u>M</u> | l<br>L              | <br>                 |      |           | М                | !<br>!                     | <br>  M                       | <u> </u>          | <br>  M        | <u> </u>           | l<br>L        | <br>           | <u> </u>             | <br>                   | l<br>L                | <u> </u>              | 1<br><u>                                     </u> | <br>     |              | !<br>!                  |
| sv-136 ·       | <br>  M   | <br>  <u>M</u> | <br>  <u>M</u> | <br>          | <br>                | <br>          | <br>  <u>M</u>  | <br>                | l  <br>L!            |      | <br>      | М                | <br>                       | <br>  M                       | <u> </u><br>      | <br>  <u>M</u> | Ι .                | l<br>         | l<br>          | <u> </u><br>         | l<br>L                 | <br>                  | l<br>L                | <br>  M   |          |              | !<br>!                  |
| sv-137         | <br>  M   | <br>  M        | <br>  <u>M</u> | <u> </u>      | <u> </u>            | <br>          | M               | l<br>L              | <br>                 |      |           | м                | !<br>!                     | <br>  <u> </u>                | <br>              | <br>  <u> </u> | <u> </u>           |               | <br>           |                      | !<br>!                 | l<br>L                | <u> </u>              | <br>  <u>M</u>                                    | <u> </u> | <br> A       | <br>                    |
| sv-139         | <br><u>  m</u>                                  | M              | <br>  M        | <br>          | <br>                | <br>          | <br>  <u>M</u>  | <br>                |                      |      |           | М                | !<br>                      | <br>  M                       | <br>              | <br>  <u>M</u> | I<br>L             | <br>          | !<br>!         | <u> </u>             | !<br>!                 | <u> </u>              | <u> </u>              | <br>  <u>  M</u>                                  |          | <u> </u>     | !<br>!                  |
| sv-140         | <br>  <u>                                  </u> | <br>  M        | <br>  <u>M</u> | <br>          | l<br>               | l<br>L        | <br>  <u>M</u>  | <br>                | <br>                 |      | <br>      | M                | <br>                       | <br>  M                       | <br>              | <br>  M        | <br>               | <br>          | !<br>!         | <br>                 | <br>                   | <u> </u>              | l<br>                 | <br>  M   |          | <br>         | <u> </u>                |
| sv-141         | <br>  M   | <br>  M        | <br>  M        | !<br>         | i<br>               | l<br>L        | <br>  <u>M</u>  | <br>                | <br>                 |      | <br>      | М                | <br>                       | <br>  M                       | <br>              | <br>  M        | <br>               | <u> </u>      | l<br>L         | <br>                 | <u> </u>               | <u> </u>              | <br>                  | <br><u>  M</u>                                    |          | <u> </u>     | <u> </u>                |
| sv-181         | <br>  M   | <br>  M        | <br>  M        | <u> </u><br>  | !<br>               | <br>          | <br>  M         | <br>                | <br>                 |      | <br>      | м .              | <br>                       | <br>  M                       | <u> </u><br>      | <br>  <u> </u> | †<br>              | <br>          | <br><u> </u>   | <u> </u>             | <br>                   | <br>                  | <u> </u>              | <br>  M   |          | <br>         | !<br><del>!</del>       |
| sv-200         | M   | <br>  M        | <br>  M        | <br>          | <br> -              | l<br>L        | <br>  M         | l<br>L              | <br>                 |      | l<br>L A  | M                | <br>                       | <br>  M                       | <br>              | <br>  <u>M</u> | l<br>              | <u> </u>      | l<br>L         | <br>  A              | <u> </u>               | <u> </u>              | 1                     | <br>  M   | <u> </u> | <u> </u><br> | <u> </u>                |
| sv-203         | <br>  M   | <br>  M        | <br>  <u> </u> | <br>          | <br>                | l<br>L        | <br>  <u>M</u>  | <br>                | <br>                 |      |           | <u> </u>         | l<br><u>L</u>              | <br>  M                       | <u> </u>          | <br>  <u>M</u> | <u> </u>           |               | <br>           | <br>                 | <u> </u>               | <br>                  | <br>                  | <br>  M   | <br>     | <br>         | <u></u>                 |
| sv-206         | <br>  M   | <br>  M        | <br>  <u> </u> | <br>          | l<br>L              | l<br>L        | <br>  <u>M</u>  | <br>                | <br>                 |      |           | М                | l<br>L                     | M                             | <u> </u>          | <br>  <u>M</u> | <br>               | <br>          | <u> </u><br>   | <br>                 | <br>                   | <u> </u>              | <br>                  | <br>  м   | !<br>!   | <br>         | .<br>                   |
| sv-227         | <br>  M   | <br>  M        | <br>  <u> </u> |               | !<br>!              | <br>          | <br>  M         |                     | <br>                 | M    | <br>  A   | М                | <br>  M                    | <br>  M                       | <br>  M           | <br>  <u> </u> | <br>  <u>0</u>     | <br>          | !<br>          | <br>  0              | <br>  A                | <br>                  | <br>                  | <br>  M   | <br>  M  | <br>         | !<br>!                  |
| sv-230         | <br>  M   | <br>  M        | <br>  M        | <u> </u>      | <br>                | <br>  M _     | <br>  M         | l<br>I              | <br>                 | M    | <br>  A   | M                | <br>  _ M                  | <br>  _M                      | <br>  M           | <br>  M        | <br>  <u>Q</u>     | <br>          | <br>           | 1 0                  | <br>  A                | 1                     | 1                     | <br>  | <u> </u> | l<br>L       | <br>                    |

\*Base-Neutral and Acid Extractable, and Volatile Organics

\*\*organics listed above plus dioxolane isomers.

Temp = temperature

= dissolved oxygen

= total suspended solids

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

= total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics

= chlorides

= pH

Trans = transparency

Alk = alkalinity

= total phosphorus

TOC = total organic carbon

 $\begin{array}{ll} NH_{3} & NH_{4} & = \text{ ammonia} \\ NO_{2} & NO_{3} & = \text{ nitrate-nitrite} \end{array}$ 

Sed Org = sediment organics Metals = heavy metals Fecal Coli = fecal coliform Total Coli = total coliform  $BOD_5 = 5$ -day biochemical

oxygen demand

Sed = sediment (routine)

Sample Stations: Greenville

| Station<br>No. | <br> Temp<br>   | <br>  DO<br> <br>                                | <br>  pH<br> <br>      | <br> Salt<br> | <br> Condt<br> | <br>  TSS<br> | <br> Turb<br> <br> | <br> Color <br> | Trans | Alkl | <br> Hard <br> | BOD <sub>5</sub> | NH <sub>3</sub> | NO <sub>2</sub><br>NO <sub>3</sub> | <br> TKN   | TP       | <br>  TOC<br>                                 | <br>  cl<br> | <br>  Phen<br>    | <br> Metals<br> <br>                         | <br> Pest<br> PCBs | <br>  Other<br>  Org*<br> | <br>  Total<br>  Coli                             | <br>  Fecal<br>  Coli                         | <br> Flow<br>   | Sed          | <br>  Sed  <br>  Org* |
|----------------|-----------------|--|------------------------|---------------|----------------|---------------|--------------------|-----------------|-------|------|----------------|------------------|-----------------|------------------------------------|------------|----------|---|--------------|-------------------|--|--------------------|---------------------------|---|---|-----------------|--------------|-----------------------|
| sv-236         | <br>  M         | <br>  M  | <br>  м_               | <br>          | <u> </u><br>   | <br>          | <br>  M            | <br>            |       |      | <br>  •        | M                |                 | М                                  | <br>       | M        |   | <br>         | <br>              | l<br>1                                       | <br>               | <u> </u>                  | <u> </u>  | M   |                 | <br>         |                       |
| sv-239         | <br>  M         | <br>  M  | <br>  <u>M</u>         | <br>          | [<br>[         | <br>          | <br>  M            | <br>            |       |      | <br>           | M                |                 | M                                  | <u> </u>   | M        |   | l<br>I       | <br>              | l<br>L                                       | l<br>L             | <br>                      | <br>  | M   | )<br>           | L            | <br>                  |
| sv-241         | <br>  <u>M</u>  | <br>  M  | <br>  <u> </u>         | l<br>L        | <br>           | <br>          | <br>  M            | <br>            |       |      | <br>           | M                |                 | M                                  | <br>       | <u> </u> | <br>  | <br>         | l<br>i            | l<br><u>L</u>                                | l<br>L             | <br>                      | !<br>!  | <br>  M                                       | l<br>L          | <br>         | . I                   |
| sv-245         | <br>  M         | <br>  M  | <br>  M                | l<br>         |                | <br>          | <br>  M            |                 |       |      | <br>           | M                |                 | M                                  | <br>       | M        | <br>  | <br>         | l<br>!            | <u> </u>                                     | l<br>              | l<br>!                    | <u> </u>  | <br>  <u>M</u>                                | !<br>!          |              |                       |
| sv-249         | <br>  M         | <br>  M  | <br>  <u>M</u>         | <br>          | [<br>          | <br>          | <br>  <u>M</u>     | <br>            | <br>  | _ м  | _ A _          | M                | М               | <u> </u>                           | <br>  M    | <u> </u> | <br>  0                                       | <br>         | !<br>!            | <br>  <u> </u>                               | <u> </u><br>       | !<br>!                    | <u> </u>  | <u> </u>                                      | M               |              |                       |
| sv-282         | I<br><u>I м</u> | <br>  M  | <u> </u><br>  <u>м</u> |               | 1              | <br>          | <br>  <u>M</u>     | <br>            |       |      |                | М                |                 | M                                  | <u> </u>   | <u>м</u> | <u> </u>                                      | <br>         | l<br>!            | <u> </u>                                     | <br>  A            | <u> </u><br>              | <u> </u>  | <u> </u>                                      | 1<br>           | <br> A       |                       |
| sv-288         | <br>  M         | M  | <br>  <u> </u>         | <br>          | <br>           | !<br>         | <br>  <u>M</u>     | !<br>!!         |       | M    | A              | M                | М               | М                                  | <br>  M    | M        | <br>  Q                                       | <br>         | !<br>!            | <br>  <u>0</u>                               | !<br><u> </u>      | !<br>                     | <u> </u>  | <u> </u>                                      | I<br>M          | Α            | <br>                  |
| sv-301         | 1<br>1 M        | <br>  M<br>                                      | <br>  <u> </u>         |               | [<br>[         | <br> <br>     | <br>  <u>M</u><br> | <br>            |       |      |                | M                |                 | <u> </u>                           | !<br>      | <u> </u> | !<br>!  | <br>         | !<br>!            | <u> </u><br>                                 | !<br>!             | <br>                      | <u> </u>  | <u>м</u>                                      | <br>            | <u> </u>     | , ]<br>               |
| sv-303         | <br>  M<br>     | <br>  <u>                                   </u> | <br>  <u> </u>         |               | !<br>          |               | <br>  <u>M</u><br> | !<br>!!         |       |      |                | M                |                 | M                                  |            | M        | <u> </u>                                      | <br>         | !<br><u> </u><br> | !<br>  | !<br>              | !<br><br>!                | !<br><u>}                                    </u> | <br>  <u>M</u>                                | !<br><u> </u>   | <br>         |                       |
| sv-308         | <u>  M</u>      | 1<br>  M<br>                                     | <br>  <u>M</u> _       |               | !<br>!         | <br> <br>     | <br>  <u>M</u><br> | <br>            |       | <br> |                | M                |                 | <u> </u>                           | !<br> <br> | <u> </u> | <u> </u><br>                                  | !<br>!<br>!  | <u> </u><br>      | <u>  .</u><br>                               | <u> </u>           | <u> </u>                  | <u> </u>  | <br>  <u>M</u><br>                            | !<br><br>!      | <u> </u><br> |                       |
| sv-311         | <u>  M</u>      | <u>M</u>   | <u> </u>               |               | <u> </u>       |               | <u> </u>           |                 |       | M    | A              | M                | М               | M                                  | M          | М        | <u>                                     </u>  | <u> </u><br> | !<br>!<br>        | <u>                                     </u> | <u></u>            | <u> </u><br>              | <u> </u>  | <u>M</u>                                      | <u>м</u><br>!   | <br>         | <u> </u>              |
| sv-312         | <u>і м</u><br>І | M  | <u> </u>               |               |                |               | <u>м</u><br>       |                 |       | М    | _ <u> </u>     | <u>M:</u>        | М               | M                                  | <u> </u>   | М        | <u>  0</u><br>                                | <br>         | i<br>!            | <u> </u>                                     | <u>.</u><br>       | <br>                      | <u> </u>  | <u>і</u> м<br>І                               | <u>і м</u><br>І | i            |                       |
| sv-313         | <u> </u>        | <u>  м</u><br>                                   | <u> </u>               |               | <u> </u>       | <br> <br>     | <u> </u>           | ii              |       | М    | A_             | <u>м</u> .       | M               | М                                  | <u>М</u>   | <u> </u> | <u>i e</u><br>I                               | <br>         | <br>              | <u> </u>                                     | i<br>I             | <u> </u><br>              | <u> </u><br>                                      | <u> </u>                                      | <u> </u>        |              | <u></u>               |
| sv-316         | <u>  м</u><br>  | M  | <u>м</u> _             | <u> </u>      | <u> </u><br>   | <u> </u><br>  | <u> </u>           | i               |       |      |                | <u>M</u> [       |                 | M                                  | <u> </u>   | М        | <u>l                                     </u> | <u> </u><br> | l<br>I            | <u> </u><br>                                 | <u> </u>           | l<br>I                    | 1   | <u>  M                                   </u> | <br>            | <u> </u>     |                       |
| sv-322 '       | <u>  M</u>      | M  | M                      | L             |                |               | M                  | <u></u>         | М     | M    | Α              | M                |                 | M                                  |            |          |   | <u> </u>     | <b></b>           | <u>0</u>                                     | <u> </u>           | <u> </u>                  |   | <u> </u>                                      |                 | <u> </u>     |                       |

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

= dissolved oxygen DO

TSS = total suspended solids

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

= total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics

= chlorides

= pH

Trans = transparency

Alk = alkalinity

= total phosphorus

TOC = total organic carbon

 $NH_3$   $NH_4$  = ammonia  $NO_2$   $NO_3$  = nitrate-nitrite

Sed = sediment (routine)

Sed Org = sediment organics

Metals = heavy metals

Fecal Coli = fecal coliform Total Coli = total coliform

 $BOD_5 = 5$ -day biochemical

Sample Stations: Lancaster

| Station<br>No. | Temp       | DO           | і<br>  рн<br>                               | <br> Salt<br>                                    | i<br> Condt<br> | I<br>  TSS<br> | ı<br> Turb<br>                                 | <br> Color <br> | :<br> Trans <br>                               | <br> Alkl | <br> Hard <br>                               | BOD <sub>5</sub> | I<br>NH<br>NH | NO_<br>  NO_<br>  NO_                            | TKN  | !<br>  ТР<br> | TOC  | l<br>Cl  | l<br>Phen    | <br> Metals<br>                               | Pest<br> PCBs | Other  | ,<br>  Total<br>  Coli                       | Fecal<br>Coli | Flow     | Sed         | Sec<br>  Org |
|----------------|------------|--------------|---|--|-----------------|----------------|--|-----------------|--|-----------|--|------------------|---------------|--|--|---------------|--|----------|--------------|---|---------------|--|--|---------------|----------|-------------|--------------|
|                | <u>i</u>   | <u>i</u> .   | <u>.</u>                                    | <u>i                                     </u>    | <u>i</u>        | <u> </u>       | <u>i                                      </u> |                 | i  | Ĺ         |  |                  |               | 3  | <u> </u>                                       | L             | <u>.</u>   | <u>.</u> |              | <u>i</u>                                      | <u>.</u>      | <u>.                                    </u> | <u>i</u>                                     | İ             | <u> </u> | <u> </u>    | <u> </u>     |
|                | !          |              |   | ļ  | ļ               | !              |  | !               | !!   | :         |  |                  |               | <b>!</b>   |  |               | [  | !        | [            | [   | [             | !  | ļ  | 1             |          |             | ļ .          |
| B-042          | <u> </u>   | <u>  M</u>   | <u>  M</u>                                  | <u> </u>   | <u> </u>        | !              | M  | ļ               | <u>                                       </u> | <u> </u>  | <u> </u>                                     | М                | <u>  М</u>    | <u>  M</u>                                       | M  | M             | l Q  | !        | <u></u>      | <u> </u>                                      | <u>  A</u>    | <u> </u>                                     | <u>                                     </u> | <u>  M</u>    | М        |             | <del></del>  |
| B-044          | M          | <br>  M      | !<br>  <u>M</u>                             | 1<br>  | 1<br>1          | !<br>[         | I<br>I M                                       | <u> </u>        | <u> </u>                                       | M         | L A L  | М                | !<br>  м      | !<br>  <u>M</u>                                  | M  | <u>М</u>      | <br>  0  | <u> </u> | !<br>{       | a   | !<br>!        |  | !<br>!                                       | М             | M        | A           |              |
|                | I          | İ            | 1   | I  | l               |                | 1  | 1 1             |  |           |  |                  | l             | l  | l  | 1             | 1  | 1        | ı            | 1   | Ī.            | l  |  | 1             |          |             | 1            |
| B-046          | <u>  M</u> | <u>  M</u> _ | <u> </u>                                    | <del>                                     </del> | M               | <u> </u>       | <u> </u>                                       | <u> </u>        |  | <u> </u>  | A  | <u> </u>         | <u> </u>      | M  | M  | M             | M  | <u> </u> | <u> </u>     | <u> </u>                                      | A             | <u> </u>                                     | <u> </u>                                     | . м           | М        | _ A_        | <u> </u>     |
| B-048          | l<br>I M   | l<br>I M     | l<br>I m                                    | <br>   | !<br>!          | <br> -         | l<br>Im  | <br>            | <br>   | М         | l I  | м                | !<br>] M      | <br>  M  | M  | l<br>Im       | l<br>I Q   | <br>     | <br>         | <br>  Q                                       | <br>          | <br>   | <br>   | i M           | <br> ″M  | l A         | <br>         |
|                | 1          | Ī            |   | 1  | İ               |                | Ī  |                 |  |           |  |                  | 1             |  | i  |               |  |          |              |   |               |  | 1  |               |          |             | Ϊ            |
| B-051          | M          | M            | <u> </u>                                    | <u> </u>   | <u> </u>        | <u> </u>       | <u> </u>                                       | لــــا          |  | M         | <u> </u>                                     | М                | <u> </u>      | M  | <u>M</u>                                       | M             | <u>  Q</u>                                       | <u> </u> | <u> </u>     | 1 0   |               | <u> </u>                                     | <u> </u>                                     | M             | <u> </u> | _ A         | <u></u>      |
| B-056          | <br>  M    | <br>  M      | <br>  M                                     | ļ  | <br>            | <br>           | <br>  M  |                 | <br>   |           |  | м                | <br>          | <br>  M  |  | <br>  M       | 1  | <br>     |              | <br>  |               | <u> </u>                                     | ļ<br>1                                       | <br>  M       | <br>     | 1           | <br> -       |
| 0 050          | 1          | 1            | <u>                                    </u> | i  |                 | <br>           | <del>  17</del>                                |                 | !  |           | l  |                  | <u></u> -     | <del>                                     </del> | l  | <u> </u>      | <u> </u>   | <u> </u> | <del> </del> | <br>  | <u></u>       | !<br>[                                       | i  | <u></u>       | <u> </u> | <u>-</u>    | <u> </u>     |
| B-057          | M          | M            | <u> </u>                                    | <u>i                                     </u>    | М               | М_             | M  | М               | <u>.                                    </u>   | М         | A  | М                | <u>М</u>      | М  | M  | Н             | 0  | <u> </u> | <u>.</u>     | <u> </u>                                      | <u> </u>      | <u>.</u>                                     | <u>i</u>                                     | М             |          | _ A         | <u>.</u>     |
|                | ļ          |              |   | !  | 1               | <u> </u>       | l  | !!!             |  |           | !!   |                  | !             | l  | !  |               |  | 1        |              | ļ   |               | !  | 1  | ļ<br>,        | !        | !           | ļ            |
| B-059          | M<br>      | l M          | <u> </u>                                    | <u> </u>   | <u> </u>        | l              | <u>  M                                   </u>  |                 | <u> </u>                                       |           | L  | <u> </u>         | <u> </u>      | <u> </u>   | <u>                                      </u>  | <u> </u>      | <br>   | l        | l<br>I       | ļ   | ļ             | L<br>1                                       | <u>                                     </u> | <u> </u>      |          | <u> </u>    | <u></u>      |
| B-062          | <u> </u> M | M            | M   | <u> </u>   |                 | <u> </u>       | М  |                 |  |           | <u>.                                    </u> | М                | <u>.</u>      | <br>  <u>M</u>                                   |  | M             | !<br>!   | ı<br>1   | <u> </u><br> | <u> </u>                                      | <u> </u>      | i<br>L                                       | <u></u>                                      | <br>  M       |          |             |              |
|                | 1.         | 1            | ]   | 1  |                 | İ              | l  |                 | •  |           |  |                  | l             |  |  | 1             | ĺ  |          | 1            | 1   | 1             | 1  | 1  | 1             |          | 1           | 1            |
| B-064          | <u>  M</u> | <u>  M</u>   | M   |  | <u> </u>        | <u> </u>       | <u>  M</u>                                     |                 |  |           | <u> </u>                                     | М                | <u> </u>      | <u> </u>   | <u> </u>                                       | <u> </u>      | <u> </u>   | <u> </u> | <u> </u>     | <u> </u>                                      | <u> </u>      | <u> </u>                                     | <u> </u>                                     | <u> </u>      | <u> </u> | <u> </u>    | Ļ            |
| B-067A         | I<br>I M   | I<br>Im      | M   | ]<br>]   | [  <br>         | <br>           | I<br>I M                                       | 1 1             | <br>   |           | i i  | м                | ;<br>         | i<br>I M   | <br>   | I<br>I M      | )<br>  | ]<br>    | <br>         | l<br>1  | <br>          | {<br>[                                       | l<br>Í                                       | l<br>I M      | <br>     | l<br>i      | i<br>i       |
|                | 1          |              |   | 1  |                 |                |  | 1               |  |           |  | ,                | <br>          | <del></del><br>                                  |  | <del></del>   | <del>                                     </del> |          |              |   | <u> </u>      | <u> </u>                                     | 1  |               |          |             | Ī            |
| B-067B         | M          | M            | M   | <u> </u>   |                 | <u> </u>       | M  |                 |  |           | Ш  | м                | Ĺ             | M  | <u>i                                      </u> | M             | <u></u>  |          | <u> </u>     | <u>i                                     </u> | <u> </u>      | <u> </u>                                     | <u> </u>                                     | M             |          | Ĺ           | <u></u>      |
| D 07/          | "          |              | ,,  |  |                 |                | l  |                 |  |           |  |                  |               |  |  |               | !  |          |              |   | 1             |  | !  |               | <b>!</b> |             | •            |
| B-074          | <u>  M</u> | M            | <u> </u>                                    | L<br>І   | l               | l              | <u>  M</u><br>                                 |                 | <br>   |           | <br>   | <u> </u>         | <u></u><br>І  | <u>М</u><br>І                                    | l  | <u>м</u>      | L<br>І   | Ь<br>I   | <br>         | l   | l             | l  | 1  | <u>М</u><br>І | L<br>I   | <del></del> | ₩            |
| B-075          | M          | М            | M   |  |                 |                | M  | <u> </u>        |  |           |  | м                | <u> </u>      | <u> </u>   |  | M             | <u> </u>   | <u></u>  | <u> </u>     | <u> </u>                                      | <u>.</u>      | <u> </u>                                     | <u> </u>                                     | M             | '<br>[   | <u> </u>    | <u> </u>     |
|                | I          |              |   |  |                 |                | l  |                 |  |           |  |                  | l             | ]  | 1  |               | 1  | 1        | I            |   | ŀ             |  |  |               | 1        |             |              |
| B-086          | M          | M            | M   |  | <u> </u>        |                | M  | ـــــــا        |  |           | _ A_   | <u> M</u>        | <u> </u>      | М  | <u></u>  | M             | 1  | <u> </u> | <u> </u>     | A   |               | <u> </u>                                     | 1  | M             | L        | <u> </u>    | Щ            |

\*Base-Neutral and Acid Extractable, and Volatile Organics

= temperature

= dissolved oxygen

= total suspended solids

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

= total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics = chlorides

= pH

Trans = transparency

= alkalinity

= total phosphorus

TOC = total organic carbon

 $\begin{array}{ll} \text{NH}_3 & \text{NH}_4 & = \text{ ammonia} \\ \text{NO}_2 & \text{NO}_3 & = \text{ nitrate-nitrite} \end{array}$ 

Sed = sediment (routine)

Sed Org = sediment organics

Metals = heavy metals Fecal Coli = fecal coliform

Total Coli = total coliform

BOD<sub>5</sub> = 5-day biochemical oxygen demand

| Station<br>No. | Temp   | DO<br> <br>                                  | p#<br> <br>    | Salt <br>  | Condt | TSS<br> <br> | Turb<br> <br>                                 | Color<br> <br> | Trans <br>                                   | Alkl | Hard       | BOD <sub>5</sub> | NH<br>  NH <sub>4</sub>                       | NO <sub>2</sub><br>  NO <sub>3</sub><br>     | TKN<br> <br>                                  | TP<br>         | TOC<br> <br>  | Cl             | Phen   | Metals<br> <br>                              | Pest  <br> PCBs | Other<br>Org* | Total<br>  Coli                               | Fecal<br>  Coli                              | Flow  <br> <br>                                  | Sed  | Sed<br>  Org |
|----------------|--|--|----------------|--|-------|--------------|---|----------------|--|------|------------|------------------|---|--|---|----------------|---------------|----------------|--|--|-----------------|---------------|---|--|--|--|--------------|
| B-088          | <br>  <u>M</u>                               | <br>  <u>M</u>                               | <br>  <u> </u> | <br>   |       | <br>         | <br>  M                                       | <br>           | <br>   |      |            | М                | <br>  | <br>  <u> </u>                               | <br>  | <u> </u>       |               | <br>           | <u> </u>                                     | <br>   |                 |               | l<br>   | <br>  M                                      | <br>   | <u> </u>                                     | <br>         |
| B-095          | <br>  M                                      | <br>  M                                      | <br>  M        |  |       | <br>         | l<br>l m                                      | <br>           |  |      |            | м                | <br>  | <br>  M                                      |   | <br>  M        | ]<br>         |                | <br> -                                       | i<br>1                                       |                 | <br>          | <br>  | <br>  M                                      |  | 1 1<br>L                                     | [<br>        |
|                | 1  | l  | l              |  |       |              |   | <u> </u>       |  |      |            |                  |   | l  |   | <br> <br>  M   | İ             |                |  | 1  |                 |               |   | <br> <br>  M                                 |  |  | <u>.</u>     |
| в-100          | <u>M</u><br>                                 | <u> </u>                                     | <u>  M</u>     |  |       |              | <u>                                     </u>  | l<br>          |  |      |            | !!               | l   | <u>                                     </u> | l<br>I  |                | !<br>         |                |  | <u>  ^</u><br>                               |                 |               | ļ   | I  | <u> </u>   |  | ļ            |
| B-119          | 1 M  | <u>M</u><br>                                 | <u>м</u><br>І  |  | М     | <u> </u>     | <u> </u>                                      | <u>M</u><br>   | <u> </u>                                     | M    | <u>A  </u> | M                | <u>M</u><br>                                  | l M  | M<br>   | <u> </u>       | <u>Q</u>      | <u>Q</u><br>   | <u>Q</u><br>                                 | <u>  M</u><br>                               | Q               | <u>Q</u>      | l<br>I  | <u>                                     </u> | <u> </u>   | A  | A            |
| B-128          | <u> </u>                                     | М  | <u> </u>       | لِـــا   |       |              | <u> </u>                                      | <u> </u>       |  |      | <u> </u>   | M                | <u> </u>                                      | <u> </u>                                     | <u>i                                     </u> | М              | <u>.</u>      | <u>.</u>       | <u>.</u><br>                                 | <u>.</u>                                     |                 |               | <u> </u>                                      | <u> </u>                                     | <u> </u>   | <u> </u>                                     | <u> </u>     |
| B-133          | <br>  M                                      | [<br><u>  M</u>                              | <u> </u>       | <br>   |       |              | l<br>L M                                      | <br><u> </u>   | <br>   |      | <br>       | М                | l<br>L  | M  | <br>  | М              | !<br>!        | !<br>L         | <br>   | l<br>  | <br>            |               | !<br>!  | ]<br>  M                                     | <u> </u>   | <u> </u>                                     | I.<br>L      |
| B-159          | <br>  M                                      | <br>  M                                      | l<br>I m       |  |       |              | <br>  #                                       | <br>           |  |      |            | м                | <br>  | <br>  M                                      | <br>  | <br>  M        | <br>          | <b> </b><br> - | <br>   | <b>!</b>                                     | <br>            | ]<br>         | l<br>t  | <br>  M                                      |  | <br>   | l<br>L       |
|                | ı  | ĺ  |                |  |       |              | <br>  M                                       | l              |  |      |            | м                |   | <br>  M                                      |   | <br>  M        | İ             |                |  | 1  |                 |               |   | <br>  M                                      |  |  |              |
| B-199          | M  | <u>                                     </u> | <u> </u>       | <del>                                     </del> |       |              | <u>-                                   </u>   | l<br>          |  |      |            | <u>. m</u>       |   | <u>                                     </u> |   |                | l<br>         | !<br>          | I<br>I                                       |  |                 |               | !<br>   | l  |  |  | <u> </u>     |
| B-211          | M  | <u>M</u><br>                                 | M              |  |       |              | <u>  M                                   </u> | <u> </u>       |  |      |            | <u> M '</u>      | <u> </u>                                      | l M  | <u> </u>                                      | <u>м</u><br>І  | <u> </u>      | <br>           | <u> </u>                                     | <u>                                     </u> |                 | <u> </u>      | <u>                                      </u> | <u> </u>                                     | <del>                                     </del> | <u> </u>                                     | <u> </u>     |
| B-243          | M  | M  | M              | اً ـــا  |       |              | <u>.</u>                                      | <u> </u><br>   | <u>.                                    </u> |      |            | М                | <u>i                                     </u> | <u>  M</u>                                   | <u>i                                     </u> | М              | <u>.</u>      | <u>.</u>       | <u> </u>                                     | <u> </u>                                     |                 |               | <u>i                                     </u> | <u>i m</u>                                   | <u>i — </u>                                      | <u> </u>                                     | <u> </u>     |
| B-286          | <br>  M                                      | <br>  <u>M</u>                               | M              |  |       |              | <br>  <u>M</u>                                | <br>           | <br>   |      |            | М                | !<br>   | <br>  <u> </u>                               | !<br>!  | <br>  <u>M</u> | l<br><u>l</u> | l<br>L         | <br><u> </u>                                 | !<br><u> </u>                                | l<br>           | <u> </u>      | l<br><u> </u>                                 | <br>  M                                      | <u> </u>   | <u> </u>                                     | <u> </u>     |
| B-287          | <br>  M                                      | <br>I м                                      | <br>  M        |  | . [   |              | <br>  M                                       | <br>           |  |      |            | М                | <br>  | <br> M                                       | }<br>   | <br>  M        | <br>          | <br> -         | ]<br>  | !<br>!                                       | <br>            |               | <br>  | ·<br>  M                                     |  |  | l<br>I       |
|                | l  |  |                |  |       |              | l   | İ              |  |      |            |                  | !   | 1  | [   |                |               |                | <br> <br>                                    | !  |                 |               |   | <br>  M                                      |  |  |              |
| B-323          | <u>                                     </u> | <u>M</u><br>                                 | <u> </u>       |  |       |              | <u>                                     </u>  | l<br>          |  |      | <br>       | M                | .   | <u>  м</u><br>                               | <del> </del>                                  | <u> </u>       | <u> </u>      | l<br>          | l  | I<br>  | <br>            |               | 1   | <u>                                     </u> |  |  | <br>         |
| B-325          | I M  | <u>M</u><br>                                 | M              |  |       | <u> </u>     | <u>  M</u><br>                                | l<br>I         |  |      |            | М                | <u> </u>                                      | <u>  м</u><br>                               | <u> </u>                                      | M              | <u> </u>      | <u> </u>       | <u>                                     </u> | <u></u>                                      | <u> </u>        | <br>          | <u>                                     </u>  | <u>M</u><br>                                 | <del> </del>                                     | <u>                                     </u> | <u></u>      |
| B-326          | !<br>  M                                     | I<br><u>  М</u>                              | <br>  <u> </u> |  |       | •            | <br>  M                                       | <u>.</u>       |  |      |            | М                | <u> </u>                                      | <br>  M                                      | <u> </u>                                      | M              |               | <u>.</u>       | <u>.                                    </u> | <u> </u>                                     | <u>.</u>        |               |   | <u> </u> M                                   | <u>i</u>   | routing                                      | <u></u>      |

\*Base-Neutral and Acid Extractable, and Volatile Organics

TSS = total suspended solids

Phen = phenols

Pest = pesticides and PCBs -

Flow = flow or stage meas.

TKN = total Kjeldhal nitrogen

Hard = hardness

Turb = turbidity

Other = other organics = chlorides

= pH

TP = total phosphorus TOC = total organic carbon

 $NH_3$   $NH_4$  = ammonia  $NO_2$   $NO_3$  = nitrate-nitrite

Metals = heavy metals. Fecal Coli = fecal coliform

Total Coli = total coliform

 $BOD_5 = 5$ -day biochemical oxygen demand

| Station        | <br> Temp         | <br>  DO        | l<br>Hal  | <br> Salt                                    | <br> Condt | <br>  TSS | <br> Turb        | <br> Color | <br> Trans | <br> Alki      | <br> Hard | BOD | l<br>I NH       | l<br>I no   | <br> TKN     | ΤP | <br> TOC        | <br>  cl     | <br>  Phen | <br> Metals       | Pest         | <br>  Other  | Total            | <br>  Fecal     | <br> Flow       | <br>  Sed           | l<br>Sed |
|----------------|-------------------|-----------------|---|--|------------|-----------|------------------|------------|------------|----------------|-----------|-----|-----------------|---|--------------|----|-----------------|--------------|------------|-------------------|--------------|--------------|------------------|-----------------|-----------------|---------------------|----------|
| Station<br>No. | i<br>             | <br>            | i<br> <br>  |  |            | <br>      | i<br>I<br>L      |            | !<br>!     | <br> <br>      |           | 5   | NH <sub>4</sub> | NO 3  | <br>         |    | !<br>!          | <br>         | İ          | <br>              | PCBs         | Org*         | Coli             | Coli            |                 | <br> <br>           | Org      |
| B-330          | <br>  M           | <br>  M_        | <br>  <u> </u>                                    |  | <br>       | <br>      | <br>  M          | !<br>L     | )<br>      | <br>           |           | М   | !<br>           | <br>  <u>M</u>                                    | <br>         | М  | <br>            | <br>         | l<br>L     | !<br>!            | <u> </u><br> | !<br>!       | <u> </u>         | [<br>  M        | <br>            | <br> _A             | <br>     |
| BF-007         | <br>  M           | [<br><u>  M</u> | [<br><u>                                     </u> | <u> </u>                                     | <u> </u>   | [<br>     | і<br><u>Ім</u>   | !<br>!     | <u> </u>   | <br>           | <u> </u>  | М   | <u> </u><br>    | <br>  M_  | <u> </u>     | М  | <u> </u><br>    | !<br>!       | }<br>!     | !<br><del>!</del> | !<br>!       | !<br>!       | <u> </u><br>     | <br>  <u>M</u>  | !<br>           | !<br><del>!</del> - | <u> </u> |
| BF-008         | <br>  M           | <br>  M         | <br>  M   | ļ  | <br>       | !<br>!    | <br>  <u>M</u>   | <u> </u>   | l<br>L     | <br>           | <u> </u>  | М   | !<br>           | <br>  <u> </u>                                    | !<br>!       | M  | !<br>!          | l<br>        |            | <u> </u><br>      | !<br>        | !<br>        | <u> </u>         | <br>  M         | [<br>           | !<br>               | l<br>    |
| CW-002         | <br><u>  M</u> _  | <br>  <u>M</u>  | <br>  <u>M</u>                                    |  |            | <br>      | <br>  M          | !<br>      | <br>       | <br>  <u>M</u> | <br>  A   | М   | <br>  M         | <br>  <u>M</u>                                    | <br>  M      | M  | <br>  <u>0</u>  | <br>         | i e        | <br> a            | <br>  A      | <u> </u>     | <u> </u>         | <br>  M         | <br>  <u>M</u>  | <br>                | <br>     |
| CW-006         | <br>  M           | <br>  M         | <br>  <u>M</u>                                    |  | <br>       | !<br>!    | ]<br>[ <u>M</u>  | ]<br>      | ]<br>      | )<br>          | ]<br>     | М   | !<br>           | M   | <u> </u><br> | М  | <br>            | <u> </u><br> | <br>       | <u> </u><br>      | <br>         | <br>         |                  | [<br><u>  M</u> | l<br>           | <u> </u>            | l<br>L   |
| CW-008         | <br>  M           | [<br>  M        | <u>М</u>  |  |            | (<br>     | <br>  <u>M</u> _ | <u> </u>   | <u> </u>   | М              | <br> _A_  | М   | l<br>I M        | <br>  _ M   | M            | M_ | <br>  <u>0</u>  | <br>         | <br>       | <u> </u>          | l<br>L       | <br>         | !<br>L           | j<br>I m        | ]<br>  <u> </u> | !<br>               | l<br>L   |
| CW-009         | <br>  M           | 1<br>  M        | <u> </u>  |  |            | <br>      | <br>  M          | !<br>      | <br>       |                | ! !<br>L! | М   | <br><u> </u>    | <br>  _ M   | <br>         | М  | 1<br>L          | [<br>        | l<br>1     | !<br>!            |              | <u> </u><br> | !<br>L           | <br>  M         | i<br>L          | l<br>               | !<br>    |
| CW-011         | <br>  M           | <br>  M         | <br>  <u>M</u>                                    | <u>                                     </u> |            | <br>      | <br>[_M          | l<br>L     |            |                | <br>      | М   | <u> </u>        | <br>  M   | <br>         | М  | <br>            | l<br>L       | <u> </u>   | !<br>!            | <br>         | l<br>L       | l<br>L           | <br>  <u>M</u>  | }<br>           | l<br>L              | <u> </u> |
| CW-013         | <br>  M           | <br>  M         | <u> </u>  |  | ļ          | l<br>L    | <br>  <u>M</u>   | !<br>      | <br>       | M              | <br> _A_  | М   | <br>  <u>M</u>  | <br><u> </u> м                                    | M            | M  | <br>  <u>0</u>  | <br>         | <br>       | <br>  0           | <br>  A      | !<br>!       | <br>             | ј<br><u>јм</u>  | <br>[           | <br>                |          |
| CW-016         | [<br>  <u>M</u> _ | [<br>  M        | <u> </u>  |  | M          | i<br>M    | <br>  <u>M</u>   | <br>  M    | <u> </u>   | M              | <br>  A   | М   | <br>  M         | <br>  M   | M            | М  | ]<br>  <u>M</u> | !<br>        | ļ .<br>L   | ]<br>  <u> </u>   | ]<br> A      | <br> A       | ]<br>            | <br>  M         | <br>  <u> </u>  | <br> A              | <br> _A_ |
| CW-016F        | <br>  M           | M               | M   | <u> </u>                                     |            | l<br>L    | <br> M           | !<br>!     | 1<br>      | <br>  <u> </u> | _ A_      | М   | <br>  M         | [<br><u>                                     </u> | [<br>  M     | M  | [<br><u>[ a</u> | (<br>L       | <br>       | <br>  <u> </u>    | <br>         | <u> </u><br> | l<br>L           | <br>  <u>M</u>  | !<br>!          | <br>                | l.<br>L  |
| CW-017         | <br>  M           | <br>  M         | M   | <br>   |            | <u> </u>  | <br>  M          | <br>       | <br>       | <u> </u>       |           | М   | <br>            | <u> </u>  |              | м  | !<br>!          | <br>         | <br>       | !<br>!            | <br>         | l<br>L       | <br>             | <br>] м         | l<br>!          | 1<br>               | <br>     |
| CW-019         | ј<br><u>  м</u> _ | М               | M_  |  | <br>       | <br>      | <br>  M          | !<br>      | <br>       | <br>           | <br>  A   | М   | <br>            | <br>  M   | <br>         | М  | <br>            | !<br>L       | <br>       | <br> A            | l<br>L       | <br>         | l<br>L           | <br>  M         | l<br>L          | <br>                | <u> </u> |
| CW-023         | <br>  M           | M               | M   |  |            | <u> </u>  | <u> </u>         | <u> </u>   | !<br>!!    | M              | A         | М   | <br>  M         | <br>  M   | <u>М</u>     | М  | <br>  0         | )<br>        | )<br>      | <br>  0           | ]<br>1       | <br>         | <br>             | <br>  M         | <br>  <u>M</u>  | <br>                | <br> A   |
| CW-027         | <br>  M           | M               | M   | <br>   | <br>       | <br>      | <u> </u>         | <br>       | <br>       |                | [         | _ м | [<br>]          | [<br>[M   | [<br>        | M  | <b> </b><br>    | l<br>L       | <br>       | <br>  A           | <br>         | l<br>1       | <del> </del><br> | <br>  M         | !<br>L          | <br>  A             | <br>     |

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

= dissolved oxygen

= total suspended solids TSS

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

= total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics

Cl = chlorides = pH pН

Trans = transparency

Alk = alkalinity

= total phosphorus TOC = total organic carbon

 $\begin{array}{lll} \operatorname{NH}_3 & \operatorname{NH}_4 &= \operatorname{ammonia} \\ \operatorname{NO}_2 & \operatorname{NO}_3 &= \operatorname{nitrate-nitrite} \end{array}$ 

Sed = sediment (routine) Sed Org = sediment organics

Metals = heavy metals

Fecal Coli = fecal coliform

Total Coli = total coliform

 $BOD_5 = 5$ -day biochemical oxygen demand

| Station<br>No. | <br> Temp<br>                                | j<br>  DO<br>          | <br>  pH<br> <br>                                 | <br> Salt<br> | <br> Condt<br> | <br>  TSS<br> <br> | <br> Turb<br>                                    | <br> Color<br>  | <br> Trans <br> | Alkl | <br> Hard <br> | BOD <sub>5</sub> | <br>  NH<br>  NH<br>  NH <sub>4</sub> | NO <sub>2</sub><br>  NO <sub>3</sub> | <br> TKN<br>   | <br>  TP<br>    | <br>  TOC<br>  | <br>  Cl<br> <br> | <br>  Phen<br>    | <br> Metals<br> <br>                               | <br> Pest<br> PCBs | Other<br>Org*     | <br>  Total<br>  Coli | <br>  Fecal<br>  Coli | <br> Flow<br>  | Sed       | Sed  <br>  Sed  <br>  Org* |
|----------------|--|------------------------|---|---------------|----------------|--------------------|--|-----------------|-----------------|------|----------------|------------------|---------------------------------------|--------------------------------------|----------------|-----------------|----------------|-------------------|-------------------|--|--------------------|-------------------|-----------------------|-----------------------|----------------|-----------|----------------------------|
| CW-029         | ]<br>  M                                     | <br>  M                | ]<br>  <u>M</u>                                   | !<br>         | <br>           | !<br>!             | <br>  M  | ]<br>1          | <br>            | М    | <br>  A        | М                | <br>  M_                              | M                                    | <br>  M_       | і<br><u> </u> м | <br>  0        | <br>              | <br>              | <br>  Q  | l<br>              | <br>  <u>-</u>    | <br>                  | <br>  <u>M</u>        | <br>  <u> </u> | l<br>L    | <br>                       |
| CW-036         | M  | <br>  M                | <br>  M   | <br>          | !<br>!         | !<br>L             | <br>  <u>M</u>                                   | !<br>!          | <br>            |      | <br>           | м                | <u> </u>                              | ]<br>  _ m                           | <br><u> </u>   | <br>  <u>M</u>  | <br>           | l<br>L            | <br>              | l<br>L   | l<br>              | l<br>L            | l<br>L                | <br>  M               | <br>           | [<br>[    | ]  <br>                    |
| CW-041         | <br>  M                                      | <br>  M                | ]<br><u> </u> м                                   | <u> </u>      | <br>           | !<br>L             | <br>  <u>M</u>                                   | <u> </u><br>  м | <br>            | М    | <br> _A_       | M                | ј<br>ј <u>м</u>                       | <br>  <u> </u>                       | <br>  <u>M</u> | <br>  <u>M</u>  | <br>  <u>0</u> | !<br>L            | <br>              | <u>  0</u><br>                                     | <br>               | <br>              | l<br>L                | <br>  M               | <br>  <u> </u> | <br> A    | <b> </b>                   |
| cw-047_        | M  | <br>  M                | <br>  <u>M</u>                                    |               |                | l<br>L             | <br>  M  | <br>            |                 | !    | <br>           | M                | !<br>!                                | M                                    | <br>           | <u> </u>        | <br>           | <br>              | ]<br>L            | <br>   | l<br>1             |                   | l<br>                 | <br>  M               | <br>           | !<br>L    |                            |
| CW-057         | <br>  M_                                     | <br>  M                | <br>  <u>M</u>                                    | <u> </u>      |                | !<br>!             | <br>  <u>                                   </u> | l<br>L          | <br>            | M    | <br>  <u>A</u> | М                | <br>  M_                              | <br>  M                              | <br>  M        | <br>  <u> </u>  | ]<br>  Q       | <br>              | !<br><b> </b>     | ]<br><u>                                      </u> | i<br>              | <u> </u>          | !<br><u>!</u>         | <br>  <u> </u>        | <br>           | <br>  _ A | <br>                       |
| CW-064         | <br>  M_                                     | [<br><u> </u> <u>M</u> | <br>  <u>M</u>                                    | <u> </u>      | <u> </u>       | [<br>              | (<br>  <u>M</u>                                  |                 |                 |      |                | М                | !<br>!                                | <br>  <u>M</u>                       | <u> </u>       | <br>  <u> </u>  | !<br>          | !<br>!            | !<br><del> </del> | !<br><del>!</del>                                  | !<br>!             | !<br><u> </u>     | <u> </u>              | <br>  M               | !<br><u> </u>  | <u> </u>  | <u> </u>                   |
| cw-080         | <br>  M_                                     | <br>  M                | l<br><u>                                     </u> | [<br>         |                | [<br><u> </u>      | [<br><u>  M</u>                                  | [               |                 |      |                | М                | <u> </u>                              | <br>  M                              | !<br>          | <br>  <u>M</u>  | !<br>!         | !<br>!            | !<br>             | !<br>!   | <u> </u>           | <u> </u>          | !<br><b>!</b>         | <br>  M               | !<br>!         | <u> </u>  | <u> </u>                   |
| CW-083         | <br>  M_                                     | <br>  <u>M</u>         | !<br>  <u>M</u>                                   | <u> </u>      |                | <br>  <u> </u>     | <br>  M  | <u> </u>        |                 |      |                | <u> </u>         | !<br>!                                | <br>  M_                             | <br>           | <br>  <u>M</u>  | !<br>          | !<br>             | !<br><u> </u>     | !<br>  | !<br>              | <br>              | !<br><u> </u>         | !<br>  M              | !<br>!         | !<br>!    | <u> </u>                   |
| CW-088         | <u> </u>                                     | <br>  M                | <u> </u><br>  м                                   | <u> </u>      |                | <br>               | М  |                 | <br>            |      |                | М                | !<br>                                 | М                                    | l<br>          | <u> </u>        | <u> </u>       | !<br>             | [<br>             | !<br>!   | !<br>!             | l<br>             | !<br><u> </u>         | }<br>  <u>M</u>       | !<br>L         | )<br>[    | <u> </u>                   |
| CW-096         | <br>  M                                      | <br>  M<br>            | <br>  <u> </u>                                    | <u> </u>      | <br>           |                    | М  |                 | <br>            |      | <br>           | М                | l<br>1                                | M                                    | <br>           | <u> M</u>       | !<br>          | <br>              | !<br>             | <u> </u>   | <br>  A            | [<br>  A          | ! .<br>!              | <u> </u>              | !<br><u> </u>  | !<br>     |                            |
| CW-105         | <br>  M                                      | <br>  M                | i<br>  <u>M</u><br>                               |               | <br>           | L                  | <br>  <u>M</u>                                   | !<br>           | <br>            |      |                | . м              | <u> </u>                              | М                                    | !<br>          | <u> </u>        | <u> </u><br>   | !<br>             | <br>              | !<br>  | <u> </u>           | <br>              | !<br>!                | <br>  M               | !<br>!         |           |                            |
| <u>CW-131</u>  | <u>                                     </u> | <br>  M<br>            | !<br>  <u>M</u><br>!                              | <br>          |                | l<br>L             | М  |                 |                 |      | <br>           | М                | <u></u>                               | <u> </u>                             | <br>           | <u> </u>        | <br>           | <u> </u><br>      | 1<br>             | 1  | !<br>}             | <br>              | !<br>                 | !<br><u>  M</u>       | !<br>          | !<br>     |                            |
| <u>CW-134</u>  | <u>  M</u>                                   | <br>  M<br>            | !<br>  м<br>!                                     |               |                | l<br>              | М  | <br>            |                 |      |                | <u> M</u>        | !<br>                                 | M                                    |                | <u> </u>        | <u>.</u><br>   | <br> <br>         | <br>              | !<br>  | !<br>!             | 1<br><u> </u><br> | <u> </u><br> <br>     | !<br>  M<br>!         | L<br>f         | <u> </u>  |                            |
| CW-151         | <u>і м</u><br>І                              | <u>  м</u><br>         | і<br><u>] м</u><br>І                              | <u></u>       | <br>           | <u> </u>           | M  |                 |                 |      |                | М                | <u> </u>                              | <u> </u>                             | <br>           | <u> </u>        | <u> </u>       | :<br><br>!        | <br>              | <u> </u><br>                                       | <u> </u><br>       | !<br>!            | <u> </u>              | <br>  M<br>           | <u></u>        | <u></u>   | <u> </u>                   |
| CW-152         | <u> </u>                                     | M                      | ,<br>  м  |               |                |                    | М  |                 |                 | М    | _ A            | М                | ,<br>M                                | М                                    | M              | <u> </u>        | ,<br><u> </u>  | <u> </u>          | Ĺ                 | 0  | L A                |                   | <u></u>               | ,<br>  M              | <u>.</u>       | <u></u>   | <u></u>                    |

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

= dissolved oxygen

TSS = total suspended solids

Phen = phenols

Pest = pesticides and PCBs

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TKN = total Kjeldhal nitrogen

Salt = salinity

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Hard = hardness

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= total phosphorus TOC = total organic carbon

 $NH_{\frac{3}{2}}NH_{\frac{4}{3}} = ammonia$  $NO_{\frac{3}{2}}NO_{\frac{3}{3}} = nitrate-nitrite$ 

Sed = sediment (routine)

Sed Org = sediment organics

Metals = heavy metals

Fecal Coli = fecal coliform Total Coli = total coliform

BOD<sub>5</sub> = 5-day biochemical

Sample Stations: Lancaster

| Station<br>No.   | <br> Temp<br>              | <br>  DO<br>                                     | <br>  pH<br> <br>      | <br> Salt<br> <br> | <br> Condt<br> <br> | .<br>  TSS<br> <br>                            | <br> Turb<br> <br> | <br> Color<br>                                 | <br> Trans <br> | <br> Alkl <br> | <br> Hard <br> | BOD <sub>5</sub> | <br>  NH <sub>3</sub><br>  NH <sub>4</sub> | <br>  NO <sub>2</sub><br>  NO <sub>3</sub> | <br> TKN<br> <br> | <br>  TP<br>         | <br>  toc<br> <br>                             | <br>  cl<br>                                  | <br>  Phen<br> | <br> Metals<br> <br>                         | <br> Pest<br> PCBs<br>                        | <br>  Other<br>  Org*                         | <br>  Total<br>  Coli | <br>  Fecal<br>  Coli<br>                        | <br> Flow<br> <br>                             | <br>  Sed<br> | <br>  Sed  <br>  Org*                        |
|------------------|----------------------------|--|------------------------|--------------------|---------------------|--|--------------------|--|-----------------|----------------|----------------|------------------|--|--|-------------------|----------------------|--|---|----------------|--|---|---|-----------------------|--|--|---------------|--|
| CW-153           | <br>  M                    | M  | <br>  M                | İ<br>1             | <br>                | <br>   | <br>  M            |  |                 |                |                | м                | <br>                                       | <br>  M                                    |                   | M                    | <br>   | <br> <br>                                     | <br>           | [<br>[                                       | l<br>L  | <br>  |                       | <br>  M  | 1  | l<br>         |  |
| CW-154           | <br>  M                    | <br>  <u>M</u>                                   | <u> </u><br>  м        | <br>               | !<br>!              | <br>   | ]<br><u>  M</u>    | <br>   | <br> 1          |                | <br>           | _ м              | <br>                                       | ј<br><u>  м</u>                            | <br>              | <br>  M              | j<br>  | <u> </u>                                      | l<br>L         | <br>   | ]<br>i  | <br>  | <br>                  | <br>  <u>M</u>                                   | <u> </u>                                       | <br>          | <u> </u><br>                                 |
| CW-155           | <br>  M                    | <br>  M  | <br>  <u>M</u>         | <u> </u>           | <br>                | <u> </u><br>                                   | <br><u>  m</u>     | <br>   | <br>            | <u> </u>       | <br>  A        | М                | <br>                                       | <br>  M                                    | <u> </u>          | <u> </u>             | <br>   | <br>!   | <br><u> </u> - | <br>  _ A _                                  | !<br><del>!</del>                             | <br>  | <br>                  | <br>  <u>                                   </u> | <br>   | ]<br>         | <u> </u>                                     |
| CW-171           | <br>  M                    | M  | <br>  <u>M</u>         | <u> </u><br>       |                     | !<br><b>!</b>                                  | <br>  M            | <u> </u>                                       | }<br>           |                | <br>           | М                | !<br>!                                     | <br>  M                                    | <br><del> </del>  | <br>  <u> </u>       | !<br><del> </del>                              | <u> </u>                                      | !<br>          | <u> </u><br>                                 | <u> </u>                                      | <u> </u>                                      | ļ<br>                 | ]<br>  M   | !<br>  | <u> </u>      | ļ .  |
| CW-174           | <br>  M                    | <br>  M  | <br>  <u> </u>         | !<br>              | !<br>!              | !<br>  | <br>  M<br>        | <u> </u>                                       | <br>  <br>      |                | <br>  <br>     | М                | <br>                                       | <br><u>  M</u><br>                         | !<br>             | <u> </u>             | <br>   | !<br>   | <br>           | ]<br>  | !<br>   | <br>  | !<br>                 | <br>  <u>M</u><br>                               | <u> </u>                                       | <br>          | <u> </u><br>                                 |
| CW-175           | <u> </u><br><u>  м</u><br> | <br>  <u>                                   </u> | :<br><u>  M</u><br>    | <u> </u>           |                     | !<br> <br>                                     | 1<br>  M<br>       | l<br>  |                 |                |                | М                | !<br> <br>                                 | <br>  <u>M</u><br>                         | <u> </u>          | <br>  <u>M</u>       | <u> </u><br>                                   | <u> </u>                                      | !<br>          | 1  | ;<br><br>I                                    | '<br> <br>                                    | (<br><br>]            | !<br>  <u>M</u><br>                              | <u> </u><br>                                   | <u></u>       | <u> </u><br>                                 |
| CW-176           | <u> </u>                   | <u>і м</u><br>1                                  | <u>і м</u><br>[        | <u> </u><br>       | <u> </u>            | <u> </u><br>                                   | <u>і м</u><br>І    | <u> </u>                                       |                 | М              | A              | М                | <u>і м</u><br>І                            | м_<br>                                     | <u>і</u> м<br>[   | М                    | <u>  0</u>                                     | <u> </u>                                      | <u></u>        | <u>i o</u>                                   | <u></u>                                       | !<br> <br>                                    | !<br> <br>            | <u>  M                                   </u>    | <u>i                                      </u> | <u> </u>      | <u> </u><br>                                 |
| CW-185           | M                          | <u>                                     </u>     | <u>і м</u><br>І        | <u>i</u><br>I      | <u></u>             | İ<br>I   | <u>  M</u><br>     | i<br>  | <u>i i</u>      |                |                | M                | <u>.</u><br>                               | <u>і м</u><br>І                            | i<br>I            | <u> </u>             | <u>i                                      </u> | <u>i                                     </u> | <br>           | <u>i</u><br>I                                | <u>i                                     </u> | <br>  | <u> </u><br>          | <u>  м</u><br>                                   | <u>i —</u>                                     | <u> </u>      | ]<br>  |
| CW-192           | i                          | <u>                                     </u>     |                        |                    | l                   | <u>                                      </u>  | <u>м</u><br>       | <u> </u>                                       | <br>            |                | <br>           | M                | <u> </u>                                   | <u> </u>                                   | 1                 | <u> </u>             | 1  | 1   | <br>           | <u> </u>                                     | <br>  | <u>t                                     </u> | <u> </u>              | <u>  M</u>                                       | <del> </del>                                   | 1             | i  |
| CW-197           | I                          | <u>  M</u>                                       | l                      |                    |                     | <u>                                       </u> | M                  | <u>                                     </u>   | <br>            | M              |                |                  | <u>M</u><br>                               |  | <u>M</u><br>      |                      | ]  | <u> </u><br>                                  | <u> </u><br>   | <u>                                     </u> | <u>  A                                   </u> | <br> <br>!                                    | !<br>!                | <u> </u>   | <u>                                     </u>   | <u> </u>      | <u>                                     </u> |
| CW-198<br>CW-200 | <u>M</u><br>               | <u>  M</u><br> <br>  M                           | <u>  м</u><br> <br>  м |                    |                     | !<br> <br>                                     | M<br> <br>  M      | <u>                                       </u> | <br>   <br>     | M              | A              | M<br>M           | <u>  M</u>                                 | <u>M</u><br> <br>  M                       | M                 | <u>М</u><br> <br>  м |  | <u>                                     </u>  | <br> <br>      | <u>                                     </u> | <br> <br>                                     | <u>                                      </u> | <u> </u><br>          | <u>  м</u><br> <br>  м                           | <u> </u><br>                                   | <u>A</u>      | <br>   |
| CW-201           | M<br>  M                   |  | <u> </u>               | <br> <br>          |                     | <br> <br>                                      | M<br>  M           |  | <br>            | M              |                | м                | <br> <br>  M                               | <u>M</u><br> <br>  M                       | <br> <br>  M      |                      |  | <br> <br>                                     | !<br> <br>     | <br> <br>  0                                 | <br> <br>                                     | !<br> <br>                                    | !<br> <br>            | M<br>  M   | <br> <br>                                      | <br> <br>  A  | <u> </u>                                     |
|                  | <br> <br>  M               | 1  | Ī                      | 1<br>1             |                     | <br> <br>                                      | <br> <br>  M       |  |                 |                |                | <br>M            | <br> <br>                                  | <br> <br>  M                               |                   | M                    |  | <br> <br>                                     | <br> <br>      | <br> <br> <br>                               | <br> <br>                                     | <br> <br>                                     | !<br> <br>            | <br> <br> M                                      | <br> <br>                                      | <br> <br>     |  |

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Temp = temperature

= dissolved oxygen DO

TSS = total suspended solids

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

= total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics

= chlorides

рΗ = pH Trans = transparency

Alk = alkalinity

TP = total phosphorus

TOC = total organic carbon

 $\begin{array}{ll} \text{NH}_3 & \text{NH}_4 & = \text{ ammonia} \\ \text{NO}_2 & \text{NO}_3 & = \text{ nitrate-nitrite} \\ \end{array}$ 

Sed = sediment (routine) Sed Org = sediment organics

Metals = heavy metals Fecal Coli = fecal coliform

Total Coli = total coliform

BOD<sub>5</sub> = 5-day biochemical

| Station<br>No. | Temp           | DO             | і<br>  рН<br>  | Salt<br> Salt | Condt        | TSS           | ,<br> Turb<br> <br> | <br> Color Tr<br> <br> | ans Alk<br> <br>                                | <br> Hard<br> | BOD <sub>5</sub><br> | NH <sub>3</sub><br>  NH <sub>4</sub><br> | NO 2<br>NO 3   | TKN  <br>    | TP             | ,<br> тос<br> <br> | Cl  <br> <br> | Phen   | Metals<br> <br> | Pest<br> PCBs | Other<br>Org* | Total<br>Coli | Fecal<br>  Coli                                  | Flow         | Sed  <br>                                    | Sed<br>  Org |
|----------------|----------------|----------------|----------------|---------------|--------------|---------------|---------------------|------------------------|---|---------------|----------------------|--|----------------|--------------|----------------|--------------------|---------------|--------|-----------------|---------------|---------------|---------------|--|--------------|--|--------------|
| CW-213         | <br>  M        | i<br>I m       | M              | <br>          | <br>         | <br>          | <br>  M             | l                      | i<br>L  | İ             | <br>  M              | İ<br>L                                   | <u> </u>       | <br>         | М              | <br>               | <br>          | <br>   | <br>            | <br>          | l<br>L        | <br>          | <br>  M  | <br>         | <u> </u>                                     | <br>         |
| CW-214         | <br>  M        | <br>  M        | M              | <br>          | [<br>[       | <br>          | <br>  M             | l  <br>                | <br>  | <u> </u>      | <br>  _ M            | <br>                                     | ј<br><u>јм</u> | <br>         | <br>  M        | <br>               | <br>          | <br>   | <br>            | l<br>L        | l<br>I        | l<br>         | <br>  M  | <br>         | <br>   | <br>         |
| CW-221         | <br>  M        | <br> <br>  M   | M              | <br> <br>     |              | <br> <br>     | <br>  M             | <br>                   |   | [<br>         | <br>  M              | 1  | <br>           | <br>         | <br>  M        | <br>               | <br> <br>     | <br>   | 1<br>L          | <br>          | <br>          | l<br>L        | <br>  M  | <u> </u>     | <br>   | <br>         |
| CW-223         | <br>  M        | <br>  M        | i M            | <br>          | <br>         | l<br>I        | <br>  M             |                        | l<br>L  | l<br>I        | <br>  M              | [<br>                                    | <br>  M        |              | <br>  <u>M</u> |                    | <br>          | <br>   | <br>            | <br>          | <br>          | <br>  M       | <br>  M  | <br>1        | <br>   | <br>         |
| CW-224         | <br>  M        | <br>  M        | M              |               | <br>         |               | <br>  M             |                        |   | 1             | l<br>M               |  | <br>  <u>M</u> | l<br>L       | <br>  <u> </u> | <br>               | <br>          | <br>   | <br>            | !<br>!        | <br>          | [<br>[        | <br>  M  | l<br>L       | <br>   | <u> </u>     |
| CW-225         | <br>  M        | <br>  M        | <br>  M        | <br>          | <br>         | l<br>L        | <br>  <u>M</u>      | l l<br>LL              | l<br>l  | <br>          | <br>  M              | <br>                                     | <br>  M        | <br>         | <br>  <u> </u> |                    | <u> </u><br>  | l<br>L | <br>            | I<br>1        | <br>          | <u> </u>      | <br>  M  | !<br>        | !<br>  | <br>         |
| CW-226         | <br>  M        | <br>  <u>M</u> | <br>  м        |               | <br>         | <br>          | <br>  M             | <br>                   | <br>    M                                       | <br>          | <br>  M              | <br>  <u>M</u>                           | <br>  <u> </u> | <br>  M      | <br>  <u> </u> | <br>  0            | <br>          | l<br>L | <br>  <u> </u>  | <br>          | l<br>L        | <br>          | <br>  M  | <u> </u>     | <br>  A                                      | <u> </u>     |
| CW-227         | <br>  M        | <br>  M        | <br>  <u> </u> | <u> </u>      | <br>         | l<br>L        | ]<br>[_M            | <br>  <u> </u>         | <u> </u>  | <br>          | <br>  M              | <br>                                     | <br>  <u>M</u> | <br>         | <br>  <u> </u> | <br>               | <br>          | <br>   | <u> </u>        | <br>          | l<br>L        | <br>          | <br>  <u>                                   </u> | <u> </u>     | <u> </u><br>                                 | <u> </u>     |
| PD-004         | <br>  <u>M</u> | <br>  <u>M</u> | <br>  <u>M</u> | <br>          | <br>         | !<br>!        | <br>  M             | <br>                   | <br>  <u>                                  </u> | <br>  A       | <u> </u>             | <br>  M                                  | <br>  M        | <br>  M      | <u> </u>       | <br>  0            | !<br>         | !<br>! | <br>  <u>a</u>  | <br>          | <br>          | <u> </u>      | <br>  M  | <br>  M      | <br>   | <u> </u>     |
| PD-005         | M              | M              | <br>  M        | <br>          | <u> </u><br> | l<br>I        | <br>  M             | <br>                   |   | <u> </u><br>  | M                    | <u> </u>                                 | <br>  M        | 1<br>        | <u> </u>       | <br>               | l<br>1        | <br>   | l<br>           | <br>          | !<br>!        | <u> </u>      | <br>  M  | <u> </u>     | <u> </u><br>                                 | <br>         |
| PD-006         | <br>  M        | <br>  M        | <br>  <u> </u> | <br>          | <br>         | l<br><u> </u> | <br>  M             | <br>                   | <br>  <u> </u>                                  | <br>  A       | <br>  M              | <br>  M_                                 | <br>  <u>M</u> | <br>  M      | <br>  <u> </u> | <br>  Q            | <br>          | <br>   | <br>  0         | !<br>         | <br>          | !<br>         | <br>  <u>M</u>                                   | <br>  M      | <br>  A                                      | <u> </u>     |
| PD-009         | M              | <br>  M        | <br>  <u>M</u> | <br><u> </u>  | <u> </u>     | <br>          | !<br>!              | <br>                   | - <u> </u> -                                    | <u> </u>      | M                    | <u> </u>                                 | <br>  M        | <u> </u><br> | <br>  <u> </u> | <br>               | !<br>!        | ł<br>! | !<br>!          | <u> </u>      | <br>          | <u> </u><br>  | <br>  M  | <u> </u>     | <u> </u>                                     | <u> </u>     |
| PD-066         | <br>  M        | <br>  <u>M</u> | <u> </u>       | <u> </u>      | <u> </u>     | l<br>L        | <br>  M<br>         | <br>                   | <u> </u>  | <br>  A       | <br>  M              | <u> </u>                                 | [<br>  M       | <br>         | <br>  <u>M</u> | !<br>!             | !<br>         | !<br>! | <br>  A         | <u> </u>      | <br>          | <u> </u>      | <br>  M  | <u> </u>     | <u>                                     </u> | <u> </u>     |
| PD-067         | <br>  M        | <u> </u>       | <u>М</u>       | <br>          | <u> </u>     | l<br>         | <br>  M             | <br>                   | <u> </u><br>                                    | <u> </u>      | <br>  <u> </u>       |  | 1 M            | <u> </u>     | <br>  <u>M</u> | !<br>!             | !<br>!        | !<br>! | 1               | !<br>!        | !<br>         | I<br>         | <br>  M  | <del> </del> | <u> </u>                                     | <u> </u>     |
| PD-068         | <br>  M '      | M              | М              | <br>          | 1            |               | <br>  M             |                        | <br>  |               | [<br>  M             | <br>                                     | <br>  M        | I<br>        | <br>  <u>M</u> | <br>               | I<br><u>L</u> | !<br>! | 1<br>1          | !<br>         | !<br>!        | !<br>!        | <br>  M  |              | <u> </u>                                     | <u> </u>     |

\*Base-Neutral and Acid Extractable, and Volatile Organics

Temp = temperature

= dissolved oxygen

= total suspended solids

Phen = phenols

Pest = pesticides and PCBs

Flow = flow or stage meas.

= total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics Cl = chlorides

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Trans = transparency

Alk = alkalinity

= total phosphorus TOC = total organic carbon

Sed = sediment (routine) Sed Org = sediment organics Metals = heavy metals Fecal Coli = fecal coliform

Total Coli = total coliform

BOD<sub>5</sub> = 5-day biochemical

Sample Stations: Lancaster

| Station<br>No. | Temp           | DO<br>   | pH              | Salt     | Condt        | TSS      | Turb           | Color<br> | Trans          | Alkl | <br> Hard <br> | BOD <sub>5</sub> | NH<br>3<br>NH<br>4 | NO <sub>2</sub><br>NO <sub>3</sub> | TKN             | TP       | TOC            | cl<br> <br> | Phen   | <br> Metals<br> <br> | Pest<br> PCBs | Other<br>Org* | <br>  Total<br>  Coli | Fecal<br>Coli  | Flow     | Sed  | Sed<br>  Org |
|----------------|----------------|----------|-----------------|----------|--------------|----------|----------------|-----------|----------------|------|----------------|------------------|--------------------|------------------------------------|-----------------|----------|----------------|-------------|--------|----------------------|---------------|---------------|-----------------------|----------------|----------|--|--------------|
| PD-080         | <br>  M        | <br>  M  | <br>  <u>м</u>  | <br>     | l<br>L       | <br>     | <br>  M        | <br>      | <br>           | М    | <br>  A        | М                | <br>  <u>M</u>     | <br>  <u> </u>                     | і<br><u>і</u> м | М        | <br>  Q        | <br>L       | <br>   | <br>  <u>Q</u>       | l<br>L        | l<br>L        | <u> </u><br>          | <br>  M        | M        | <br> A   | l<br>1       |
| PD-113         | <br>  M        | <br>  M  | <br>  <u> </u>  | <br>     | l<br>L       | <br>     | <u> </u>       | l<br>L    | <br>           | М    | A              | М                | <br>  <u>M</u>     | М                                  | <br>[_м_        | <u>M</u> | <br>  <u>Q</u> | <br>        | l<br>L | <br>  <u>0</u>       | <br> A        | <br>          | [<br>[                | М              | М        | <br> A   | (<br>        |
| PD-152         | <br>  M        | <br>  M  | <br>  <u> </u>  | <br>     | <br>         | <br>     | <u> </u>       | <br>      | <br>           |      | <br>  A        | М                | [<br>L             | <u> </u>                           | <br>            | М        | [<br>          | 1<br>       | l<br>  | <br>                 | [<br>[        | l<br>L        | <u> </u>              | М              |          | <br> A   | !<br>        |
| PD-179         | i<br>I M       | <br>  M_ | [<br>  <u>M</u> | [<br>    | (<br>        | [<br>    | <br>  <u> </u> | <br>      |                |      | l  <br>L1      | M                | <br>               | <u> </u>                           | <u> </u>        | M        | <u> </u>       | !<br>L      | <br>   | !<br>!               | <br>          | l<br>L        | <u> </u>              | <u> </u>       |          | <br>   | <br>         |
| PD-180         | <br>  M        | <br>  M  | <br>  <u> </u>  | <u> </u> | <br>         | !<br>!   | <br>  M        | <br>      | <br>           |      | <br>           | М                | !<br>L             | _ M                                | <u> </u>        | M        | !<br>!         | <br>        | l<br>I | j<br>                | J<br>L        | l<br>1        | <u> </u>              | M              |          | <u> </u>   | <br>         |
| PD-215         | ј<br><u>јм</u> | <br>  M  | ј<br><u>м</u>   | <br>     | J<br>!       | J ·<br>L | M              | <u> </u>  | <br> 1         |      |                | м                | <br>               | <br>  M                            |                 | M        | <u> </u>       | <br>        | <br>   | <br>                 | l<br>L        | <br>          | l .<br>L              | <br>  M        | <br>     | <br>   | <br>         |
| PD-246         | <br>  M        | <br>  M  | <br>  <u> </u>  | <br>     | ]<br>        | l<br>I   | M              | <u> </u>  | <br>           |      | <br>           | М                | <br>               | M                                  | <br>            | М        | <br>           | <br>[       | l<br>[ | <br>                 | <u> </u>      | l<br>L        | !<br>!                | М              | l<br>L   | l<br>L   | <u> </u>     |
| PD-247_        | <br>  M        | <br>[ M  | <br><u>  M</u>  | <br>     | <br>         | <br>(    | M              | <u> </u>  | . I            |      | <br> 1         | М                | l<br>i             | М                                  | <br>            | М        | l<br>          | <br>        | <br>   | <u> </u>             | l<br>L        | <br>          | <br>                  | M              |          | l .<br>L   | <u> </u>     |
| PD-250         | <br>  M_       | <br>  M  | <br>  <u> </u>  | <br>     | l<br>!       | <br>     | <br>  <u>M</u> | <br>      | <br>           |      |                | м                | <br>               | <u> </u>                           | [<br>           | М        | <br>           | }<br>       | l<br>L | <u> </u>             | l<br>L        | l<br>L        | <u> </u><br>          | M              | <br>     | <br>   | <br>         |
| PD-327         | <br>  м_       | <br>  M  | M               | l<br>L   | <br>         | <br>     | <u> </u>       | <br>      | <br>           | м    | <br>  A        | _ м              | <br>  M            | <u> </u>                           | <br>  M         | M        | <br>  0        | <br>        | l<br>L | <br>  0              | l<br>I        | l             | <br>                  | <u> </u>       | M        | <br>  <u>                                   </u> | <br>         |
| PD-328         | <br>  M_       | <br>  M  | <br>  <u> </u>  | <br>     | <br>         | <br>     | М              | <br>      | <br>           |      |                | М                | l<br>L             | <u> </u>                           | <br>            | М        | <br>           | <br>        | l<br>! | <br>                 | l<br>!        |               | <br>                  | <br>  <u>M</u> | !        | l<br>L   | <br>         |
| PD-329         | <br>  M_       | <br>  M  | M               | <br>     | <b> </b><br> | <br>     | M              | <br>      |                |      | <br>           | М                | <br>               | М                                  |                 | м        | <br>           | <br>        | <br>   | <br>                 | [<br><u>L</u> | [<br>[        | l<br>L                | [<br>  м       | <u> </u> | [<br>  | í<br>1       |
| PD-333         | <br>  M        | <br>  M  | <br>  <u> </u>  | <br>     | <u> </u>     | [<br>    | М              | <br>      | <b> </b><br> 1 |      |                | М                | <u> </u>           | M                                  | <u> </u>        | М        | i<br>L         | <br>        | l<br>L | l<br>L               | !<br>L        | }<br>         | †<br>                 | M              |          | <br>   | <u> </u>     |
| PD-334**       | <br>  M        | <br>  M  |                 |          |              | l<br>L   | M              |           | <br>           |      | <br> _A_       | М                | <br>               | М                                  | <u> </u>        | М        | <br>           | !<br>!      | <br>   | ]<br>  0             | }<br>L        | <br>          | ]<br>                 | М              |          | <br>   | ]<br>L       |
| PD-335         | ]<br>  м       | <br>  M  | l<br>I m        | )<br>    |              | <br>     | M              | ]         | <br>           |      |                | м                |                    | M                                  | ]               | M        | ]              | J           |        | ]                    |               |               | !<br>!                | <br>  M        |          | <br> <br>  | 1            |

\*Base-Neutral and Acid Extractable, and Volatile Organics

\*\*Monthly for cyanide at this station

Temp = temperature

= dissolved oxygen

TSS = total suspended solids

= phenols

= pesticides and PCBs

= flow or stage meas.

= total Kjeldhal nitrogen

Salt = salinity

Condt = conductivity

Hard = hardness

Turb = turbidity

Other = other organics

= chlorides

Hq =

Trans = transparency

Alk = alkalinity

= total phosphorus

TOC = total organic carbon

 $\begin{array}{ll} \text{NH}_{3} & \text{NH}_{4} = \text{ammonia} \\ \text{NO}_{2} & \text{NO}_{3} = \text{nitrate-nitrite} \end{array}$ 

Sed = sediment (routine)

Sed Org = sediment organics Metals = heavy metals

Fecal Coli = fecal coliform

Total Coli = total coliform

 $BOD_{5} = 5$ -day biochemical

## APPENDIX C

TREND BIOLOGICAL MONITORING PROGRAM STATION DESCRIPTIONS

## Fixed-Station Biological Network (70 Stations)

| Station<br>Number | Station<br>Status | Description :   | County              |
|-------------------|-------------------|---|---------------------|
| B-046             | BWMP*             | Broad River at Union Co. Road 389                       | Union/Chester       |
| B-054             | BWMP              | Enoree River at Newberry County<br>Road 45              | Newberry            |
| B-236             | В₩МР              | Broad River 2 km downstream<br>of SC Hwy 213            | Fairfield/Richland  |
| BL-001            | BWMP              | Lawson's Fork Creek at Spartanburg<br>County Road 108   | Spartanburg         |
| C-007             | BWMP              | Congaree River at US Hwy 601                            | Richland/Calhoun    |
| CSB-001           | BWMP              | Congaree River 5 km downstream from US Hwy 176          | Richland/Lexington  |
| CSTL-098          | BWMP              | Combahee River 1 km upstream from US Hwy 17             | Colleton/Beaufort   |
| CSTL-109          | BWMP              | Coosawhatchie River at Hampton<br>County Road 27        | Hampton             |
| CW-016            | BWMP              | Catawba River at SC Hwy 9                               | Chester/Lancaster   |
| CW-206            | BWMP              | Wateree River at US Hwy 76 and 378                      | Richland/Sumter     |
| E-008             | BWMP              | North Fork Edisto River at<br>Orangeburg County Road 39 | Orangeburg          |
| E-015             | BWMP              | Edisto River at SC Hwy 61                               | Dorchester/Colleton |
| E-100             | BWMP              | Four Holes Swamp at US Hwy 78                           | Dorchester          |
| MD-048            | BWMP              | Collected as estuarine station MD-214                   | Charleston          |
| MD-080            | BWMP              | Collected as estuarine station MD-213                   | Georgetown          |
| PD-027            | BWMP              | Black Creek at Darlington County<br>Road 35             | Darlington          |
| PD-028            | BWMP              | Pee Dee River at SC Hwy 34                              | Darlington/Marlboro |
| PD-038            | В₩МР              | Lumber River at US Hwy 76                               | Marion/Horry        |
| PD-061            | BWMP              | Pee Dee River at US Hwy 701                             | Horry/Georgetown    |

<sup>\*</sup> Basic Water Monitoring Program

| Station<br>Number | Station<br>Status | Description   | County     |
|-------------------|-------------------|---|------------|
| D-202             | BWMP              | Pocotaligo River at SW Bridge of Sumter County Road 32  | Sumter     |
| S-018             | BWMP              | Reedy River at Greenville County<br>Road 448  | Greenville |
| S-125             | BWMP              | Saluda River at US Hwy 25 by-pass   | Laurens    |
| ST-001            | BWMP              | Santee River at US Hwy 17A  | Berkeley   |
| SV-118            | BWMP              | Savannah River at US Hwy. 301   | Allendale  |
| SV-291            | BWMP              | Clarks Hill Reservoir in Savannah<br>River channel at US Hwy 378 (fish<br>tissue only)                          | Aiken      |
| SV-323            | BWMP              | Savannah River 2 km downstream<br>from dam at New Savannah Bluff<br>Lock and Dam                                | Aiken      |
| CW-214            | Special           | Wateree River at I-26   | Kershaw    |
| CW-222            | Special           | Wateree River upstream from<br>Little River confluence  | Richland   |
| MD-900            | Special           | Off-shore coastal waters; for pelagic finfish tissue analyses only.   | Coastal    |
| ST-507            | Special           | Lake Marion around Billy Elliott<br>landing immediately downlake of GSX<br>hazardous waste disposal site        | Sumter     |
| ST- <b>5</b> 18   | Special           | Lake Marion in Otter Flats at<br>northwestern end of lake, uplake from<br>the GSX hazardous waste disposal site | Sumter     |
| ST-519            | Special           | Lake Marion near the Rimini trestle,<br>downlake from the GSX hazardous<br>waste disposal site                  | Sumter     |
| ST-030            | Special           | Lake Marion near Wilson Dam<br>around Wyboo and Potato Creeks   | Sumter     |
| SV-531            | Special           | Langley Pond  | Aiken      |
| SV-532            | Special           | Lake Hartwell near confluence of<br>Seneca River and Eighteen Mile Creek  | Pickens    |

| Station<br>Number | Station<br>Status | Description   | County     |
|-------------------|-------------------|---|------------|
| MD-212            | Estuarine         | Murrells Inlet-100 m south of Marker 23, west bank at mouth of small creek                        | Georgetown |
| MD-213            | Estuarine         | Winyah Bay-off South Island across from lighthouse  | Georgetown |
| MD-214            | Estuarine         | Charleston Harbor-off north point of Shute's Folly Island   | Charleston |
| MD-215            | Estuarine         | Broad River-1.5 km south of Archers Creek   | Beaufort   |
| MD-216            | Estuarine         | South Edisto River off<br>northeast shore of Raccoon<br>Island - 500 m southeast of<br>Marker 157 | Charleston |
| MD-538            | Estuarine         | Campbell Creek - east bank at confluence with Whale Branch  | Beaufort   |
| MD-632            | Estuarine         | May River-south bank 1 km<br>east of Bull Creek   | Beaufort   |
| MD-633            | Estuarine         | Trenchards Inlet - Phillips<br>Island 1.5 km south of mouth<br>of Station Creek                   | Beaufort · |
| MD-634            | Estuarine         | St. Helena Sound/Coosaw River-<br>Morgan Island at mouth of<br>Parrot Creek                       | Beaufort   |
| MD-635            | Estuarine         | Stono River - Snake Island<br>at confluence of Stono and<br>Kiawah Rivers                         | Charleston |
| MD-636            | Estuarine         | Wando River - south bank<br>1 km SW of SC Hwy 41 below<br>power line                              | Charleston |
| MD-637            | Estuarine         | North Inlet - east bank of<br>Old Man Creek across from<br>mouth of Bly Creek                     | Georgetown |
| MD-638            | Estuarine         | Little River Inlet - Goat Is.<br>at mouth of Horse Ford Creek                                     | Horry      |
| MD-639            | Estuarine         | South Santee River - south bank across from southern tip of Drum Island                           | Charleston |
| MD-640            | Estuarine         | Bulls Bay - at mouth of Long<br>Creek, across from Morants Point                                  | Charleston |

| Station<br><u>Number</u> | Station<br>Status | Description   | County |   |
|--------------------------|-------------------|---|--------|---|
| MD-655                   | Estuarine         | Savannah River - off Oyster<br>Bed Island across from Coast | Jasper | , |

### APPENDIX D

SHELLFISH STATION DESCRIPTIONS LISTED BY AREA

| Station | #1    | Little River Jetty                               |
|---------|-------|--|
| Station | #2    | Mouth of Dunn Sound Creek                        |
| Station | #3    | AIWW - Marker 9                                  |
| Station | #4    | Mouth of Calabash Creek at AIWW                  |
| Station | #5    | Big Bend up Dunn Sound                           |
| Station | #6    | Bridge to Waties Island                          |
| Station | #7    | Hog Inlet  |
| Station | #8    | AIWW - Marker 116                                |
| Station | #9    | AIWW - Marker 6                                  |
| Station | #10   | AIWW at U. S. Highway 17                         |
| Station | #11   | Dock - Bird Island, North Carolina               |
| Station | #12 · | Clayton Creek at Little River Inlet              |
| Station | #13   | Boat Landing - Bonaparte Landing, North Carolina |
| Station | #14   | Palmetto Shores Marina Entrance                  |
| Station | #15   | Ocean Drive Outfall and AIWW                     |
| Station | #16   | 50 yards north of Ocean Drive Outfall            |
| Station | #17   | 42nd Avenue - Cherry Grove                       |
| Station | #17A  | 53rd Avenue Bridge on Canal                      |
| Station | #18   | Dunn Sound at Hog Inlet                          |
| Station | #19   | 53rd Avenue at Main Creek                        |
| Total   | 20 .  |  |

Station #1 White Point Swash
Station #2 Singleton Swash
Station #3 Canepatch Swash

Station #1 Withers Swash

Station #2 Pebble Beach - Midway Swash

| Station #1  | Main Creek at Atlantic Avenue Bridge                  |
|-------------|---|
| Station #1A | Main Creek at Stanley Drive                           |
| Station #2  | Main Creek at Mickey Spillane's Home                  |
| Station #3  | Main Creek at Captain Dick's Marina                   |
| Station #4  | Main Creek at Marlin Quay Marina                      |
| Station #5  | Murrells Inlet - Range Marker                         |
| Station #6  | Allston Creek at Weston Flat                          |
| Station #7  | Allston Creek POG - Hughes Landing                    |
| Station #8  | Parsonnage Creek at Nance's Dock                      |
| Station #8A | Shell Landing at Huntingtoon Beach State Park         |
| Station #9  | Clubhouse Creek at Litchfield Boulevard Bridge        |
| Station #10 | Shell Avenue and Pawley's Island Creek                |
| Station #11 | North Causeway Bridge at Pawley's Island Creek        |
| Station #12 | South Causeway Bridge at Pawley's Island              |
| Station #13 | Pawley's Inlet  |
| Station #14 | Dock - End of Sportsman Boulevard                     |
| Station #15 | Midway Inlet  |
| Station #16 | Parsonnage Creek at Chicken Farm Ditch                |
| Station #17 | Parsonnage Creek at Inlet Port Basin                  |
| Station #18 | North Boundary of Clambank Flats POG                  |
| Station #19 | Clubhouse Creek - First bend south of Salt Marsh Cove |
| Station #21 | South Pawley's Island Boat Landing                    |
| Station #22 | Huntington State Park Pond Outfall                    |
| Station #23 | Main Creek at Oyster Cove                             |
| Station #24 | Oaks Creek at First Curve                             |
| Total 25    |   |

| Station #1  | Jones Creek at Nancy Creek                          |
|-------------|---|
| Station #2  | Noble Slough  |
| Station #3  | North Inlet   |
| Station #4  | Town Creek at Debidue Creek                         |
| Station #5  | Oyster Bay near Cut-off Creek                       |
| Station #6  | No Man's Friend Creek and Mud Bay                   |
| Station #7  | Jones Creek and Mud Bay                             |
| Station #8  | Town Creek at Sixty Bass Creek                      |
| Station #9  | Town Creek at Southern Entrance to Clambank Creek   |
| Station #10 | Jones Creek at Duck Creek                           |
| Station #11 | Town Creek at Bread and Butter Creek                |
| Station #12 | Confluence of Old Man Creek and Sea Creek Bay       |
| Station #13 | Debidue Creek at Marina                             |
| Station #14 | Mid Channel Island - Bly Creek                      |
| Station #15 | Debidue Creek and Cooks Creek                       |
| Station #16 | Debidue Creek and Bass Hole Bay                     |
| Station #20 | Winyah Bay Main Channel - Buoy 19A, Range A E       |
| Station #21 | Winyah Bay - Buoy 17, Range E                       |
| Station #24 | Winyah Bay Main Channel - Coast Guard Dock, Range C |
| Station #25 | Western Channel - Tip of Western Channel Island     |
|             |   |

Total

20

# AREA 6A

| Station #1  | South Santee River at Alligator Creek             |
|-------------|---|
| Station #2  | South Santee Inlet                                |
| Station #3  | North Santee River at Crow Island and Cane Island |
| Station #4  | North Santee Inlet                                |
| Station #5  | North Santee River and Mosquito Creek             |
| Station #11 | AIWW at Mimim Creek                               |
| T-+-1 C     |   |
| Total 6     |   |

## AREA 6B

| Station #6  | Alligator Creek and Ocean Inlet   |
|-------------|---|
| Station #7  | Alligator Creek at Marker 26  |
| Station #8  | Casino Creek at Marker 29   |
| Station #9  | Dupree Creek at Marker 30   |
| Station #10 | AIWW at Marker 32   |
| Station #12 | Alligator Creek State Shellfish Ground                                  |
| Station #13 | Alligator Creek nearest South Santee River between<br>Markers 24 and 25 |
| Station #14 | Horsehead Creek at confluence with Cape Romain Harbor                   |
| Station #15 | Casino Creek at Cape Romain Harbor                                      |
| Station #16 | Closer Line on Casino Creek   |
| Station #17 | Congaree Creek at Tower Creek   |
| Station #18 | Confluence of Dupree Creek and Clubhouse Creek                          |
| Total 12    |   |

| Station #1  | Venning Creek - First creek on left past Marker 64 Southbound |
|-------------|---|
| Station #1A | Venning Creek - Bulls Bay                                     |
| Station #2  | Graham Creek at Marker 64                                     |
| Station #2A | Graham Creek and Bulls Bay                                    |
| Station #3  | Awendaw Creek at Marker 57                                    |
| Station #4  | Harbor River at Marker 48                                     |
| Station #4A | Harbor River - Bulls Bay                                      |
| Station #5  | Tibwin Creek at Marker 42                                     |
| Station #6  | Five Fathom Creek at Marker 20                                |
| Station #6A | Five Fathom Creek at Bull River                               |
| Station #7  | Jeremy Creek - Opposite fire tower                            |
| Station #8  | Clubhouse Creek - 1/4 mile north of Five Fathom Creek         |
| Station #8A | Oyster Bay at Muddy Bay                                       |
| Station #9  | Doehall Creek - 100 yards north of Marker 46                  |
| Station #11 | Five Fathom Creek at Marker 11                                |
| Station #12 | Confluence of Raccoon Creek and Romain River                  |
| Station #13 | Romain River at confluence of S Creek                         |
|             |   |

| Station #1  | Morgan Creek at northernmost confluence with AIWW    |
|-------------|--|
| Station #2  | Hamlin Sound   |
| Station #3  | Dewees Inlet at AIWW - Marker 10                     |
| Station #4  | Bull Yard Sound - Marker 104                         |
| Station #5  | Whiteside Creek - Marker 96                          |
| Station #6  | Mark Bay - Marker 90                                 |
| Station #7  | Price's Inlet  |
| Station #8  | AIWW - Marker 82                                     |
| Station #9  | Moore's Landing                                      |
| Station #10 | 1000 feet north of Isle of Palms STP outfall in AIWW |
| Station #11 | Isle of Palms STP Outfall at 41st Street             |
| Station #12 | Morgan Creek at 41st Street Marina                   |
| Station #13 | Sewee Bay POG - Sewee Bay at Hickory Bay             |
| Station #14 | Dewees Island - 1/4 mile up Horsebend Creek          |
| Station #15 | Dewees Island - Mouth of Watermelon Creek            |
| Total 15    |  |

### AREA 9A

| Station #1   | Hamlin Creek at AIWW   |
|--------------|--|
| Station #2   | Upper end of Hamlin Creek at POG                               |
| Station #3   | Upper end of Swinton Creek                                     |
| Station #5   | Shortcut - Swinton Creek                                       |
| Station #6   | Inlet Creek and Gentide Creek                                  |
| Station #7   | Inlet Creek and AIWW   |
| Station #8   | Breech Inlet   |
| Station #9   | Ben Sawyer Bridge  |
| Station #10  | Marker 126 - AIWW at the Cove STP Outfall                      |
| Station #11  | End of 10th Street at Hamlin Creek                             |
| Station #12  | Swinton Creek and Hamlin Creek                                 |
| Station #14  | Swinton Creek at AIWW  |
| Station #15  | AIWW between Inlet and Swinton Creeks                          |
| Station #17  | Conch Creek State Shellfish Ground - Mt. Pleasant side         |
| Station #17A | Conch Creek State Shellfish Ground - Sullivan's Island side    |
| Station #18  | AIWW adjacent to Wild Dunes Golf Course storm drainage outfall |
| Station #19  | AIWW at 25th Street - Isle of Palms                            |
|              |  |

# AREA 9B

| Station #1  | Wando River at Neuell Creek                          |
|-------------|--|
| Station #2  | Wando River at Horlbeck Creek                        |
| Station #3  | Wando River at S.C. Highway 41 Bridge                |
| Station #4  | Wando River at Deep Creek                            |
| Station #5  | Wando River opposite Big Paradise Island             |
| Station #6  | Wando River at Paradise Boat Landing                 |
| Station #7  | Boone Hall Creek opposite County Recreation Area     |
| Station #8  | Wando River - Buoy 23                                |
| Station #9  | Deep Creek - 1 mile from confluence with Wando River |
| Station #10 | Alston Creek STP Outfall                             |
| Station #11 | Wando River at Guerin Creek                          |
| Station #12 | Guerin Creek at Old House Creek                      |
| Total 12    | ·  |

# AREA 10A

| Station | #1   | Overhead Power Cable - Folly Creek                           |
|---------|------|--|
| Station | #2   | Folly Creek Bridge   |
| Station | #3   | Bowen Island Dock in Folly Creek                             |
| Station | #4   | Backman Creek at Folly Creek                                 |
| Station | #5   | King Flats and Folly Creek                                   |
| Station | #6   | Opposite Little Island in Folly Creek                        |
| Station | #7   | South boundary of CSZ - Folly Marina                         |
| Station | #8   | Folly River Bridge   |
| Station | #9   | Last dock north in Folly River                               |
| Station | #11  | Lighthouse Creek and Folly Creek at Rat Island Creek         |
| Station | #13  | First creek on left in Folly Creek - North of Pollution Line |
| Station | #14  | Lighthouse Creek at Pollution Line                           |
| Station | #15  | Secessionville Creek at Private Docks                        |
| Station | #15A | Folly Creek at Secessionville Pollution Line                 |
| Station | #16  | Clark Sound at Ocean View Flats                              |
| Station | #16A | Fludd's Creek - Clark Sound                                  |
| Station | #18  | Mouth of Schooner Creek                                      |
| Station | #18A | Charleston Harbor at Schooner Creek                          |
| Station | #19  | Just inside Clark Sound from Schooner Creek                  |
| Station | #20  | Backman's Commercial Dock in Backman Creek                   |
| Station | #22  | Folly River State Shellfish Ground - opposite Folly Island   |
| Station | #23  | Lighthouse Creek SSG - Mouth of First Sister Creek           |
| Station | #24  | Cole Creek State Shellfish Ground                            |
| Station | #25  | Folly Marina   |
|         |      |  |

# AREA 10B

| Station   | #1         | Mouth of Charleston Harbor at Buoy 25                  |
|-----------|------------|--|
| Station   | #2         | 200 yards east of mouth of Ft. Johnson Boat Basin      |
| Station   | #2A        | Off the end of James Island Yacht Club Dock            |
| Station   | #3         | Mouth of James Island Creek                            |
| Station   | #4         | Ashley River at Buoy 2 - Red Nun Buoy                  |
| Station   | #5 <u></u> | Off the tip of The Battery at White Danger Marker      |
| Station   | #6         | Center of channel off Charleston Yacht Club            |
| Station   | #7         | Off old pier pilings at Castle Pinckney Ruins          |
| Station   | #8         | Center of Charleston Harbor at Buoy 3 - Green Can Buoy |
| Station   | #9         | Mouth of Shem Creek at Marker 16 - Red                 |
| Station # | #10        | Mt. Pleasant channel at Marker 18 - Red                |
| Station # | #11        | AIWW at tip of Sullivan's Island Marker 127 - Green    |
| Total     | 12         |  |

| Station #1  | Elliott Cut at Stono River                          |
|-------------|---|
| Station #2  | Stono Bridge at S.C. Highway 700                    |
| Station #3  | Windmill - between Markers 10 and 11 in Stono River |
| Station #5  | Mouth of Abbapoola Creek                            |
| Station #6  | Up Abbapoola Creek at first large bend              |
| Station #7  | Green Creek at Stono River                          |
| Station #8  | Mouth of Kiawah River                               |
| Station #10 | Kiawah River at Kiawah Island Boat Landing          |
| Station #11 | AIWW - Marker 21A                                   |
| Station #12 | SCL Railroad - Marker 27                            |
| Station #15 | Stono River - Marker 63                             |
| Station #16 | Stono River - Marker 54                             |
| Station #17 | Log Bridge Creek - Marker 51                        |
| Station #18 | Rantowles Creek at Stono River                      |
| Station #19 | Middle of Stono Inlet                               |
| Station #20 | Ashley River at Wappoo Cut                          |
| Station #21 | On the flats - South Kiawah River                   |
| Station #22 | Kiawah River POG - Mingo Point                      |
| Station #23 | Captain Sam's Creek and Kiawah River                |
| Station #24 | Captain Sam's Creek at south tip of Long Island     |
| Station #26 | Coburg Dairy on Wappoo Creek                        |
| Station #27 | Stono River at Mouth of creek near Marker 25        |
|             |   |

| Station | #1  | Mouth of Church Creek - Marker 77                              |
|---------|-----|--|
| Station | #2  | Goshen Point - Marker 69                                       |
| Station | #3  | Yonges Island Creek - Marker 90                                |
| Station | #4  | Toogoodoo Creek - Marker 106                                   |
| Station | #5  | Dawho Creek - Marker 110                                       |
| Station | #6  | Steamboat Creek - Marker 2                                     |
| Station | #7  | Westbank Creek at North Edisto River, opposite Leadenwah Creek |
| Station | #8  | Leadenwah Creek at North Edisto River                          |
| Station | #9  | Adams Creek at Bohicket Creek                                  |
| Station | #10 | Rockville Boat Landing   |
| Station | #11 | Adams Creek between Botany Bay Marina and Shrimp Dock          |
| Station | #12 | Leadenwah Creek 1 mile from confluence of North Edisto River   |
| Station | #13 | Bohicket Creek at Fickling Creek                               |
| Station | #14 | S.C. Highway 700 bridge over Bohicket Creek                    |
| Station | #20 | Bohicket Creek opposite Hoopstick Island at Pollution Line     |
| Station | #21 | Opposite old dam behind Rast House Restaurant                  |
| Station | #22 | Opposite Boy Scout Camp  |
| Station | #29 | Raven Point Creek at Pollution Line                            |
| Station | #31 | Bohicket Marina  |
| Station | #32 | Privateer Creek up 1/2 mile at fork                            |
| Station | #33 | Confluence of Ocella Creek and South Creek                     |
| Station | #34 | Toogoodoo Creek SSG at last creek before fork                  |
| Station | #35 | Public Boat Ramp - Lower Toogoodoo Creek                       |
| Station | #36 | Confluence of Tom Point Creek and North Edisto River           |
|         |     |  |

| Station #1  | Up Big Bay Creek at the mound                  |
|-------------|--|
| Station #2  | Mouth of Big Bay Creek                         |
| Station #3  | Mouth of St. Pierre Creek                      |
| Station #4  | St. Pierre Creek at Peters Point               |
| Station #5  | Fishing Creek at Sandy Creek                   |
| Station #6  | Confluence of Shingle Creek and Bailey Creek   |
| Station #7  | Store Creek opposite house with docks on right |
| Station #8  | Edisto River at Ashepoo River                  |
| Station #9  | Fishing Creek at Oyster Plant                  |
| Station #10 | Fishing Creek at Pollution Line                |
| Station #12 | Headwaters of Fishing Creek past Oyster Plant  |
| Total 11    | ·  |

| Station #2   | Campbell Creek at Whale Branch                     |
|--------------|--|
| Station #4   | Bull River Inlet and Coosaw River                  |
| Station #5   | Combahee River Inlet and Coosaw River              |
| Station #8   | Ashepoo River at St. Helena Sound - Black Can Buoy |
| Station #9   | St. Helena Sound at Morgan Back Creek              |
| Station #10  | Parrot Creek and Coosaw River - Marker 1           |
| Station #11  | Sam's Point and Coosaw River                       |
| Station #12A | Confluence of Coosaw and Whale Branch              |
| Station #13  | Halfmoon Creek at Whale Branch                     |
| Station #14  | Huspah Creek at railroad trestle                   |
| Station #16A | 2000 feet southeast of mouth of Fish Creek         |
| Station #17  | Confluence of Wimbee Creek and South Wimbee Creek  |
| Station #18  | Huspah Creek at Bull Point - Whale Branch POG      |
| Station #19  | Ashepoo River POG                                  |
| Total 14     |  |

| Station #1  | Brickyard Point at Range Marker                            |
|-------------|--|
| Station #1A | McCaulley's Creek at Pawkie Island                         |
| Station #2  | Mulligan Creek at Brickyard Creek                          |
| Station #3  | Albergottie Creek at Beaufort River                        |
| Station #4  | Broomfield Creek at Beaufort River                         |
| Station #10 | Battery Creek at Five Points Creek                         |
| Station #14 | Parris Island STP Outfall                                  |
| Station #15 | Ballast Creek at Beaufort River                            |
| Station #16 | Station Creek at Beaufort River                            |
| Station #17 | Cat Island Creek at Cowan Creek                            |
| Station #18 | Second Middle Marsh in Cowan Creek                         |
| Station #19 | Battery Creek 1000 feet below Rabbit Island                |
| Station #20 | Capers Creek SSG at Penn Community Services Retreat Center |
| Station #21 | Unnamed creek at discharge of BC High and Cherry Hill High |
| Station #23 | Distant Island State Shellfish Ground                      |
| Total 15    |  |

| Station #2   | Trenchard's Inlet at mouth of Station Creek                    |
|--------------|--|
| Station #3   | Club Bridge Creek at Harbor River Sound                        |
| Station #4   | Story River at Fripp Island                                    |
| Station #5   | Old House Creek at Fripp Inlet                                 |
| Station #6   | Harbor River at Marker A-13                                    |
| Station #6F  | Unnamed creek - Fripp Canal at Old House Creek                 |
| Station #8   | Morgan River at Village Creek                                  |
| Station #9   | Edding Creek at Morgan River                                   |
| Station #11  | Jenkins Creek at Morgan River                                  |
| Station #13  | Lucy Point Creek at Rocky Springs Creek                        |
| Station #13A | South edge of Lucy Point Creek CSZ at Pollution Line           |
| Station #13B | North edge of Lucy Point Creek CSZ at Pollution Line           |
| Station #14  | Doe Creek behind Coastal Seafood - Behind Dataw Island         |
| Station #17  | Station Creek State Shellfish Ground - Beaufort County Landing |
| Station #18  | Edding Creek at Shrimp Dock                                    |

| Station #1   | Broad River at S.A.L. Railroad Bridge               |
|--------------|---|
| Station #2   | Boyd Creek at Broad River                           |
| Station #3   | Broad River at Whale Branch                         |
| Station #4E  | Laurel Bay CSZ - Ebb Tide at South Pollution Line   |
| Station #4F  | Laurel Bay CSZ - Flood Tide at North Pollution Line |
| Station #7   | Mouth of Chechessee Creek at Chechessee River       |
| Station #8   | Chechessee River Bridge                             |
| Station #9   | Mouth of Euhaw Creek at Hazzard Creek               |
| Station #10A | Archers Creek 1000 feet west of bridge              |
| Station #12A | Ballast Creek near Page Field Road Causeway         |
| Station #13  | Broad River at creek below Ballast Creek            |
| Station #14  | Broad River at Parris Island Spit                   |
| Station #16  | Broad River at Corn Island - Mouth of creek         |
| Station #17  | Hazzard Creek at Chechessee River                   |
| Station #18  | Hazzard Creek at Chelsea Plantation Clubhouse       |
| Station #19  | Drainage canal at Hazzard Creek - U.S. Highway 278  |
| Station #19A | Drainage ditch by Hickory Hill Landfill             |
| Station #21  | Confluence of Middle Creek and Whale Branch         |
| Total 18     | •   |

| Station #1 | Okatee River at Camp St. Mary's dock                 |
|------------|--|
| Station #2 | Okatee River behind Bailey's Oyster Plant            |
| Station #3 | Chechessee Creek at Okatee River                     |
| Station #4 | Callawassie Creek at Colleton River - Mouth of creek |
| Station #5 | Victoria Bluff - Colleton River at tree line         |
| Station #6 | Sawmill Creek at Colleton River                      |
| Station #7 | Okatee River at Indigo Plantation                    |
| Station #8 | Okatee River at dock without house                   |
| Total 8    | ·  |

| Station #1   | May River south of Palmetto Bluff - Marker 8        |
|--------------|---|
| Station #2   | Unnamed creek at Jack Crow Island in Cooper River   |
| Station #2A  | Cooper River at New River                           |
| Station #3   | Ramshorn Creek at Cooper River                      |
| Station #4   | Cooper River at Marker 41 - Daufuskie Island        |
| Station #5   | Bloody Point at Mungen Creek                        |
| Station #6   | Wright River - Marker 43                            |
| Station #7   | Ramshorn Creek at New River                         |
| Station #8   | First creek on left up New River - Pollution Line   |
| Station #9   | Bull Creek and Cooper River                         |
| Station #11  | Bull Creek at Savage Creek                          |
| Station #12  | Bull Creek and May River                            |
| Station #16  | May River behind Bluffton Oyster Co-op              |
| Station #17E | Cooper River Marina at edge of CSZ - Ebb Tide       |
| Station #17F | Cooper River Marina at edge of CSZ - Flood Tide     |
| Station #18  | May River below Drainage Canals - Markers 22 and 23 |
| Station #19  | May River below Drainage Canals - Marker 20         |
| Station #20  | 1.5 miles up Wright River from Fields Cut           |
| Station #21  | 2.5 miles up New River from Station 19-02A          |
|              |   |

| Station   | #1   | Braddock Point - South end of Hilton Head Island                    |
|-----------|------|---|
| Station   | #2 . | Calibogue Sound - Marker 32   |
| Station   | #3   | Shark Bank and Broad Creek - Marker 2 - CSZ Sea Pines STP           |
| Station   | #4E  | Broad Creek at Palmetto Bay Marina CSZ - Ebb Tide                   |
| Station   | #4F  | Broad Creek at Palmetto Bay Marina CSZ - Flood Tide                 |
| Station   | #5   | May River at Calibogue Sound  |
| Station   | #6   | Jarvis Creek at Calibogue Sound                                     |
| Station   | #7   | Buckingham Landing at bridge  |
| Station   | #9   | Mackey's Creek and Chechessee River                                 |
| Station # | #10  | Skull Creek at Small Creek from Mariner's Cove                      |
| Station : | #11  | Skull Creek - Marker 19   |
| Station i | #12  | Skull Creek behind Hilton Head Seafood Company                      |
| Station i | #13  | Skull Creek and Port Royal Sound                                    |
| Station a | #14E | 500 feet north of Barnard Cove and Braddock Creek - Ebb Tide        |
| Station a | #14F | 500 feet south of Barnard Cove and Braddock Creek - Flood Tide      |
| Station a | #15A | Broad Creek at Calibogue Sound - North end of Buck Island           |
| Station i | #16  | Creek behind Lynn Smith's Oyster Plant at Broad Creek               |
| Station i | #16B | Canal from Palmetto Dunes at U.S. Highway 278 NE                    |
| Station a | #16C | Canal at headwaters of Broad Creek off Matthews Drive               |
| Station : | #17A | Canal entering Broad Creek between Long Cove and Wexford Plantation |
| Station i | #17E | Broad Creek at Broad Creek Marina CSZ - Ebb Tide                    |
| Station i | #17F | Broad Creek at Broad Creek Marina CSZ - Flood Tide                  |
| Station i | #18  | Shelter Cove Marina   |
| Station a | #18A | Canal from Palmetto Dunes at U.S. Highway 278 SW                    |
| Station i | #19E | Broad Creek at Harbor Town Marina CSZ - Ebb Tide                    |
| Station a | #19F | Broad Creek at Harbor Town Marina CSZ - Flood Tide                  |
| Station i | #20E | Moss Creek Marina CSZ - Ebb Tide                                    |
|           |      |   |

#### AREA 20 (continued)

Station #20F Moss Creek Marina CSZ - Flood Tide

Station #21 Fish Haul Creek at Port Royal Sound

Station #22 Old House Creek at Calibogue Sound

#### APPENDIX E

LIST OF FACILITIES REQUIRING FEDERAL COMPLIANCE SAMPLING INSPECTIONS
BY EQC DISTRICT

#### County Codes

Abbeville 01 03 Aiken Allendale 05 07 Anderson 09 Bamberg Barnwell 11 13 Beaufort Berkeley 15 17 Calhoun Charleston 19 21 Cherokee 23 Chester Chesterfield 25 27 Clarendon 29 Colleton 31 Darlington Dillon 33 35 Dorchester Edgefield 37 39 Fairfield Florence 41 Georgetown 43 Greenville 45 47 Greenwood 49 Hampton 51 Horry Jasper 53 55 Kershaw 57 Lancaster 59 Laurens 61 Lee Lexington 63 McCormick 65 67 Marion Marlboro 69 71 Newberry 73 **Oconee** Orangeburg 75 77 Pickens 79 Richland

81

83

85

87

89 91 Saluda

Sumter

Union

York

Spartanburg

Williamsburg

# CSI Inspections for Appalachia I (A1) District FY 1990

| NPDES #   | Facility Name                          | County # | Month<br>Planned | <u>Date</u> |
|-----------|--|----------|------------------|-------------|
| SC0000281 | Badische Corporation/Anderson          | . 07     | Feb              | •           |
| 00400     | Owens-Corning Fiberglas                | 07       | Feb              |             |
| 00426     | Blair Mills Inc.                       | 07       | Dec              |             |
| 00477     | Milliken & Co./Pendleton Finish        | 07       | 0ct              |             |
| 00485     | Mount Vernon Mill/LaFrance Division    | 07       | Apr              |             |
| 00515     | Duke Power/Oconee Nuclear Station      | 73       | Mar              |             |
| 00591     | J.P. Stevens/Clemson Plant             | 73       | Dec              |             |
| 01082     | Ingersoll Rand/Torrington Plant        | 07       | Jul              |             |
| 02291     | Duke Power/Lee Steam Station           | 07       | May              |             |
| 26701     | Michelin Tire/Sandy Springs            | 07       | Apr              |             |
| 23744     | Anderson/Rocky River Plant             | 07       | Jan              |             |
| 23752     | Anderson/Generostee Creek Plt          | 07       | Jan              |             |
| 23906     | WCRSA/Piedmont Plant                   | 07       | May              |             |
| 25976     | Williamston/South Plant                | 07       | Jun              |             |
| 33553     | Oconee County Sewer Comm./Coneross Crk | 73       | Mar              |             |
| 35700     | Pendleton - Clemson Regional Sewer     | 07       | 0ct              |             |
| 39853     | Easley/Middle Branch                   | 07       | Sep              |             |

CSI Inspections for Appalachia II (A2) District
FY 1990

| NPDES #   | Facility Name                    | County # | Month<br>Planned | Date<br>Inspected |
|-----------|----------------------------------|----------|------------------|-------------------|
| SC0000141 | Cornell-Dubilier Marketing Inc   | 77       | Apr              |                   |
| 00264     | Greenwood Mills/Liberty Plant #1 | 77       | Apr              |                   |
| 00302     | BASF Corp./Fibers Division       | 77       | Aug              |                   |
| 01155     | Platt Saco Lowell/Easley Plant   | 77       | Nov              |                   |
| 01791     | Hoechst Celanese Corporation     | 45       | Mar              |                   |
| 03191     | Milliken & Co./Gayley Mill       | 45       | Jan              | •                 |
| 20010     | Clemson/Main Plant               | 77       | Sep              |                   |
| 23035     | Easley/Golden Creek Lagoon       | 77       | Jul              |                   |
| 23043     | Easley/Georges Creek Lagoon      | 77       | Jul              |                   |
| 23922     | WCRSA/Travelers Rest-East Lagoon | 45       | Jan              | •                 |
| 24261     | WCRSA/Lower Reedy River Plant    | 45       | Jun              |                   |
| 24309     | WCRSA/Taylors Area Plant         | 45       | Feb              |                   |
| 24317     | WCRSA/Grove Creek Plant          | 45       | Jun              |                   |
| 33804     | WCRSA/Wade Hampton Plant         | 45       | Nov              |                   |
| 37451     | WCRSA/Parker Plant               | 45       | 0ct              |                   |
| 37460     | WCRSA/Lakeside Plant             | 45       | 0ct              |                   |
| 40525     | WCRSA/Gilder Creek               | 45       | Sep              |                   |
| 41211     | WCRSA/Mauldin Road (New)         | 45       | Feb              |                   |

# CSI Inspections for Appalachia III (A3) District FY 1990

| NPDES #   | Facility Name                     | County # | Month<br>Planned | Date<br><u>Inspected</u> |
|-----------|-----------------------------------|----------|------------------|--------------------------|
| SC0001368 | Cone Mills/Carlisle Plant         | 87       | Dec              |                          |
| 01503     | Reeves Brothers/Vulcan Urethane   | 83       | Jul              |                          |
| 02321     | ABCO Industries Inc               | 83       | Feb              |                          |
| 02429     | Spartan Mills/Montgomery Mill     | 83       | Dec              |                          |
| 02453     | Spartan Mills/Startex Mill        | 83       | May              |                          |
| 02461     | Spartanburg Steel Products Co.    | 83       | Aug              |                          |
| 02798     | Hoechst Fibers Inc.               | 83       | Apr              |                          |
| 03051     | Milliken & Co./Lockhart Mill      | 87       | Dec              |                          |
| 03107     | Phillips Fibers Corp.             | 83       | Aug              |                          |
| 03182     | Milliken & Co./Magnolia Finish    | 21       | Mar              |                          |
| 03581     | Milliken & Co./Milliken Chem      | 83       | Mar              |                          |
| 20427     | SSSD/Lawson Fork Plant            | 83       | Jan              |                          |
| 20435     | SSSD/Fairforest Plant             | 83       | Jan              |                          |
| 20478     | Gaffney/Peoples Creek             | 21       | Sep              |                          |
| 20508     | Gaffney/Providence Creek          | 21       | Sep              |                          |
| 20737     | Woodruff/Dildine Creek            | 83       | Nov.             |                          |
| 20761     | Greer/Maple Creek Plant           | 83       | 0ct              |                          |
| 20770     | Greer/South Tyger River Plant     | 83       | 0ct              |                          |
| 21172     | Union/Toschs Creek Plant          | 87       | 0ct              |                          |
| 21199     | Union/Meng Creek Plant            | 87       | 0ct              |                          |
| 21300     | Lyman/Town of                     | 83       | May              |                          |
| 21601     | Inman/City of                     | 83       | Jun              |                          |
| 23540     | Milliken & Co./New Prospect Plant | 83       | Sep              |                          |
| 24414     | Inman Mills Water District        | 83       | Jun              |                          |
| 25763     | Chesnee/Main Plant                | 83       | Sep              |                          |

Appalachia III (continued)

| NPDES #   | Facility Name                        | County # | Month<br>Planned | Date<br>Inspected |
|-----------|--------------------------------------|----------|------------------|-------------------|
| SC0026042 | Blacksburg/Canoe Creek               | 21       | May              |                   |
| 31551     | Gaffney/Thicketty Creek              | 21       | Sep              | ·                 |
| 33855     | Groce Laboratories                   | 83       | Jul              |                   |
| 35734     | Riverdale Mills Water District (New) | 83       | Dec              |                   |
| 35947     | Spring City Knitting Company         | 21       | Mar              |                   |
| 36145     | DNS Electronic Materials Inc.        | 83       | Dec              |                   |
| 37826     | Speciality Ind. Prod. Inc.           | 83       | Nov              |                   |
| 40517     | Thermal Oxid Corp./GSX               | 83       | Feb              |                   |
|           |                                      |          | Total            | 33                |

## CSI Inspections for Catawba (CT) District

## FY 1990

| NPDES #   | Facility Name                      | County # | Month<br>Planned | Date<br>Inspected |
|-----------|------------------------------------|----------|------------------|-------------------|
| SC0001015 | Bowater Inc./Carolina Corporation  | 91       | May              | ·                 |
| 01783     | Hoechst Celanese/Celriver Plant    | 91       | Jun              |                   |
| 03255     | Springs Mills/Grace Finishing      | 57       | Feb              |                   |
| 04278     | Duke Power/Catawba Nuclear Station | 91       | Apr              |                   |
| 20303     | Clover/Calabash Creek Plant        | 91       | Feb              |                   |
| 20371     | Fort Mill/Harris & Jackson Street  | 91       | Jan              |                   |
| 20443     | Rock Hill/Manchester Creek         | 91       | 0ct              |                   |
| 21211     | Great Falls/Town of                | 23       | Aug              |                   |
| 22080     | Lancaster/Town of                  | 57       | Jul              |                   |
| 35360     | R-M Industries, Inc.               | 91       | Apr              |                   |
| 36056     | Chester/Rocky Creek Plant          | 23       | Jul              |                   |
| 36081     | Chester/Sandy River Plant          | 23       | Jul              |                   |
| 38156     | York/Fishing Creek Plant (New)     | 91       | Jan              |                   |

# CSI Inspections for Central Midlands (CM) District FY 1990

| NPDES #   | Facility Name                        | County # | Month<br>Planned | Date<br>Inspected |
|-----------|--------------------------------------|----------|------------------|-------------------|
| SC0001333 | Carolina Eastman Company             | 17       | 0ct              | •                 |
| 01848     | Westinghouse Electric/Columbia Plant | 79       | May              |                   |
| 02038     | SCE&G/Wateree Station                | 79       | 0ct              |                   |
| 02046     | SCE&G/McMeekin Station               | 63       | 0ct              |                   |
| 02402     | J.B. Martin Company                  | 63       | Sep              |                   |
| 03425     | Mepco-Electra, Inc.                  | 63       | Jul              |                   |
| 03557     | Allied Corp./Allied-Signal Inc       | 63       | Jul              |                   |
| 04286     | Square D Company                     | 79       | Apr              |                   |
| 20125     | Winnsboro/Jackson Creek              | 39       | Aug              |                   |
| 20940     | Columbia/Metro Plant                 | 79       | Aug              | •                 |
| 22390     | Whitmire/Town of                     | 71       | Apr              | •                 |
| 22900     | Ridgeway/Town of                     | 39       | Nov              |                   |
| 24147     | Cayce/Main Plant                     | 63       | Nov              |                   |
| 24465     | Batesburg/Town of                    | 63       | Jan              |                   |
| 24490     | Newberry/Bush River                  | 71       | Sep              |                   |
| 29483     | Alpine Utilities                     | 63       | Jan              |                   |
| 30856     | SCE&G/Summer Nuclear                 | 39       | Feb              |                   |
| 33367     | Teepak, Inc.                         | 17       | Mar              |                   |
| 34541     | AT&T Nassau Metals Corporation       | 63       | 0ct              |                   |
| 34762     | Lindau Chemicals, Inc.               | 79       | Feb              |                   |
| 38121     | Union Camp Corporation               | 79       | Apr              |                   |
| 38865     | East Richland Co. PSD (New)          | 79       | Nov              |                   |
| 40631     | Chapin/Town of                       | · 63     | Dec              |                   |
| 40860     | Newberry Co. Plant #1/Bush river     | 71       | Mar              |                   |
| 41661     | Richland Co./Nicholas Creek          | 79       | Jun              |                   |
|           |                                      | •        |                  |                   |

### CSI Inspections for Low Country (LC) District

## FY 1990

| NPDES: #  | Facility Name                            | County # | Month<br><u>Planned</u> | Date<br>Inspected |
|-----------|--|----------|-------------------------|-------------------|
| SC0000825 | US Marines/Beaufort Air Station          | 13       | Aug                     |                   |
| 00914     | Lobeco Products, Inc.                    | 13       | Feb                     |                   |
| 01830     | Westinghouse Electic/Hampton Plant       | 49       | Dec                     |                   |
| 02020     | SCE&G/Canadys Station                    | 29       | Apr                     |                   |
| 02135     | J.P. Stevens Industrial/Walterboro Plant | 29       | Mar                     |                   |
| 02577     | U.S. Marine Corp./Island Depot           | 13       | Feb                     |                   |
| 21016     | Beaufort/City of                         | 13       | Aug                     |                   |
| 21318     | Hampton/Town of                          | 49       | Dec                     |                   |
| 24121     | Sea Pines PSD                            | 13       | May                     |                   |
| 25399     | Estill/Town of                           | 49       | July                    |                   |
| 25950     | Yemassee/Town of                         | 49       | Nov                     |                   |
| 34584     | Hardeeville/Church Road                  | 53       | Jul                     |                   |
| 40436     | Walterboro/City of                       | 29       | Mar                     |                   |

## CSI Inspections for Lower Savannah (LS) District

## FY 1990

| NPDES #   | Facility Name                            | County # | Month Date<br>Planned Inspected |
|-----------|--|----------|---------------------------------|
| SC0000175 | U.S. Department of Energy/Savannah River | 11       | Nov                             |
| 00221     | Whitlock Combing Co.                     | 05       | Jan                             |
| 00574     | SCE&G/Urguart Steam Station              | 03       | Feb                             |
| 00582     | Kimberly-Clark Corporation               | 03       | Jul                             |
| 01147     | Georgia Pacific/Holly Hill Lumber        | 75       | Apr                             |
| 01163     | Greenwood Mills/Liner Plant #17          | 75       | May                             |
| 01180     | Ethyl Corp./Orangeburg Plant             | 75       | Mar                             |
| 03093     | Milliken & Co./Barnwell Mill             | 11       | Jan                             |
| 03531     | Greenwood Mills/Edisto Plant             | 75       | May                             |
| 03999     | Shuron Inc                               | 11       | Sep                             |
| 24457     | Aiken Co. PSA/Horse Creek                | 03       | Feb                             |
| 24481     | Orangeburg/New Facility                  | 75       | Aug                             |
| 25143     | Barnwell/City of                         | 11       | Jul                             |
| 26417     | Blackville/Town of                       | 11       | Feb                             |
| 39918     | Allendale/Town of                        | 05       | May                             |
| 40215     | Denmark/City of                          | 09       | Apr                             |
| ND0063061 | Williston/Town of                        | 11       | Sep                             |

### CSI Inspections for Pee Dee (PD) District

## FY 1990

| NPDES #   | Facility Name                     | County # | Month<br>Planned | Date<br><u>Inspected</u> |
|-----------|-----------------------------------|----------|------------------|--------------------------|
| SC0000876 | Stone Container Corp./Florence    | 41       | May              |                          |
| 01473     | L-Tec Company                     | 41       | Jan              |                          |
| 01805     | Mohasco Ind/Dixiana Mill          | 33       | Aug              |                          |
| 01872     | AVM of S.C.                       | 67       | Feb              |                          |
| 02151     | Delta Mills Inc/Delta Plt. 2 & 3  | 69       | Jul              |                          |
| 02500     | Dixie Yarns Inc/Caro Knit Plt.    | 25       | Nov              |                          |
| 02704     | Galey & Lord Inc/Society Hill     | 31       | Sep              |                          |
| 02917     | DuPont/Florence Plant             | 41       | Dec              |                          |
| 02925     | Carolina PWR/HB Robinson SS       | 31       | Jan              |                          |
| 03042     | Sonoco Products/Hartsville #11    | 31       | Nov              |                          |
| 04162     | Fiber Industries Inc              | 31       | Apr              |                          |
| 20249     | Cheraw/Town of                    | 25       | 0ct              |                          |
| 20257     | Marion/South Main Street Plant    | 67       | Nov              |                          |
| 21580     | Hartwville/City of                | 31       | 0ct              |                          |
| 21776     | Dillon/Little Pee Dee River Plant | 33       | Aug              |                          |
| 22128     | Florence/Main Plant               | 41       | Sep              |                          |
| 24767     | Jefferson/Town of                 | 25       | Nov              |                          |
| 25178     | Bennettsville/Town of             | 69       | May              |                          |
| 25232     | Chesterfield/Thompson Creek       | 25       | Dec              |                          |
| 25356     | Timmonsville/Town of              | 41       | Apr              |                          |
| 25933     | Johnsonville/East Plant           | 41       | Jan              |                          |
| 29408     | Mullins/White Oak Creek Plant     | 67       | Nov              |                          |
| 38164     | Lake City/Lake Swamp Plant        | 41       | Jul              |                          |
| 39624     | Darlington/WWTF-Black Creek       | 31       | Feb              |                          |
|           |                                   |          | Total            | 24                       |

# CSI Inspections for Trident (TD) District

## FY 1990

| NPDES #   | Facility Name                     | County # | Month<br>Planned | Date<br><u>Inspected</u> |
|-----------|-----------------------------------|----------|------------------|--------------------------|
| SC0000990 | Plusa Inc                         | 15       | Apr              |                          |
| 01091     | SC Public Service/Jeffries Steam  | 15       | May              |                          |
| 01759     | Westvaco Corp./Charleston Mill    | 19       | Nov              |                          |
| 02011     | SCE&G/Hagood Station              | 19       | Sep              |                          |
| 03115     | Ga Pacific/Russellville Plant     | . 15     | May              |                          |
| 03441     | Mobay Chemical/Bushy Park Plant   | 15       | Feb              | •                        |
| 03883     | SCE&G/Williams Station            | 15       | Feb              |                          |
| 26506     | DuPont/Cooper River Plant         | 15       | Jan              |                          |
| 28584     | Amoco Chemical Co./Cooper River   | 15       | Apr              |                          |
| 38555     | Showa Denko, Inc.                 | 35       | 0ct              |                          |
| 21041     | Hanahan/Town of                   | 15       | Nov              |                          |
| 21229     | Charleston/Plum Island Plant      | 19       | Jan              |                          |
| 21296     | Mt. Pleasant/Main Plant           | 19       | Aug              |                          |
| 21598     | Moncks Corner/Town of             | 15       | Jul-             |                          |
| 24783     | NCSD/Felix C. Davis WWTP          | 19       | Sep              |                          |
| 25844     | St. George/Town of                | 35       | Oct -            |                          |
| 26051     | St. Andrews PSD/Savage Road Plant | 19       | Jan              |                          |
| 26069     | St. Andrews PSD/Pierpont Plant    | 19       | Jan              |                          |
| 37541     | Summerville/Ox Pond (New)         | 35       | Jun              |                          |
| 38032     | DCW&SA/Lower Berkeley WTP         | 15       | Dec              |                          |
| 38822     | Dorchester PW/Lower Dorchester    | 35       | Jun              |                          |
| 39764     | BCW&SA/Central Berkeley WTP       | 15       | Jul              |                          |

Total 22 .

# CSI Inspections for Upper Savannah (US) District

# FY 1990

| NPDES #   | Facility Name                     | County # | Month<br>Planned | Date<br>Inspected |
|-----------|-----------------------------------|----------|------------------|-------------------|
| SC0000299 | Fieldcrest Cannon/Rocky River     | 01       | Sep              |                   |
| 00353     | Milliken & Company/Abbeville Mill | 01       | Feb              |                   |
| 00396     | Milliken & Company/McCormick Mill | 65       | Apr              |                   |
| 20214     | Ware Shoals/Dairy Street Plant    | 47       | Nov              |                   |
| 20702     | Laurens/Town of                   | 59       | Mar              |                   |
| 21709     | Greenwood/Wilson Creek Plant      | 47       | Aug              |                   |
| 22268     | Ridge Spring/South Lagoon 1       | 81       | Mar              |                   |
| 22381     | Saluda/Town of                    | 81       | Jan              |                   |
| 22403     | Due West/Town of                  | 01       | Nov              |                   |
| 22870     | Greenwood/West Alexander Plant    | 47       | Mar              |                   |
| 25330     | ECW&SA/Brooks Avenue Plant        | 37       | 0ct              | ~                 |
| 25691     | ECW&SA/Johnston #1                | 37       | Jul              |                   |
| 25721     | Calhoun Falls/Town of             | 01       | May              |                   |
| 36048     | Ninety-six/Town of                | 47       | Dec              |                   |
| 37974     | Laurens Co. WRC/Clinton-Joanna    | 59       | Aug              |                   |
| 40002     | WCRSA/Durbin Creek                | 59       | Dec              |                   |
| 40614     | Abbeville/Long Cane Crek          | 01       | 0ct              |                   |

# CSI Inspections for Waccamaw (WM) District

# FY 1990

| NPDES #   | Facility Name                          | County # | Month<br>Planned | Date<br>Inspected |
|-----------|--|----------|------------------|-------------------|
| SC0000868 | International Paper Company            | 43       | 0ct              |                   |
| 01104     | SC Public Service/Grainger Steam       | 51       | Feb              |                   |
| 01431     | Georgetown Steel Corporation           | 43       | Jun              |                   |
| 02780     | Wolverine Brass Works Conway           | 51       | Nov              |                   |
| 22471     | SC Public Service/Winyah Steam Station | 43       | Mar              |                   |
| 21733     | Conway Oxidation Pond #3               | 51       | Jan              |                   |
| 22152     | N. Myrtle Beach/Ocean Drive Plant      | 51       | Jul              |                   |
| 22161     | N. Myrtle Beach/Crescent Beach         | 51       | Jul              |                   |
| 25135     | Andrews/Town of                        | 43       | Mar              |                   |
| 25348     | Loris/Town of                          | 51       | Dec              |                   |
| 35971     | Kingstree/New Plant                    | 89       | Sep              |                   |
| 37753     | GSW&SA/Schwartz Plant                  | 51       | Aug              |                   |
| 39039     | Myrtle Beach/Main Plant (New)          | 51       | May              |                   |
| 39900     | GSW&SA/Central Wetlands Plant          | 51       | Apr              |                   |
| 40029     | Georgetown/City of                     | 43       | 0ct              |                   |

# CSI Inspections for Wateree (WR) District FY 1990

| NPDES #   | Facility Name                   | County # | Month<br>Planned | Date<br>Inspected |
|-----------|---------------------------------|----------|------------------|-------------------|
| SC0000795 | Campbell Soup Company           | 85       | Jul              |                   |
| 01341     | Veratec Inc/Bethune Plant       | 55       | Sep              |                   |
| 01490     | Reeves Bros/Bishopville Finish  | 61       | May              |                   |
| 02518     | Hermitage Industries            | 55       | Nov              |                   |
| 02585     | DuPont/May Plant                | 55       | Dec              |                   |
| 02682     | Hardwick Chemical Company       | 55       | Mar              |                   |
| 20419     | Manning/Town of                 | 27       | Feb              |                   |
| 21032     | Camden/City of                  | 55       | Aug              |                   |
| 24554     | Crescent/Div. Cooper Industries | 85       | Jun              |                   |
| 27707     | Sumter/Pocataligo River Plant   | 85       | Mar              |                   |
| 35378     | Bishopville/Town of             | 61       | 0ct              |                   |
| 39870     | Kershaw Co/Lugoff Plant         | 55       | Apr              |                   |

Total - 12